

TELEPHONE
1852
NUMBER

THE CHEMIST AND DRUGGIST

TELEGRAPHIC
ADDRESS
CHEMISTS LONDON

HEAD OFFICE,
LONDON:
CANNON ST.
E.C.

ESTABLISHED IN

ENGLAND ... 1859. AUSTRALASIA ... 1885.

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No. 777. Vol. XLVI.

MARCH 9, 1895.

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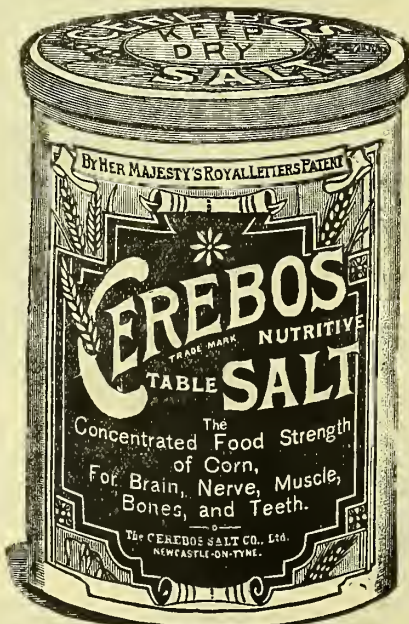
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INDEX AND BUYERS' GUIDE

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Premier Vinolia Soap	1/-	10d.	9/2	7/5
" " Shaving Sticks...	6d.	5d.	4/-	3/2
" " " Cakes...	1/-	10d.	8/-	6/4
Toilet " " Sticks...	1/-	10d.	9/2	7/4
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" " " " " " " " " "	1/-	10d.	8/-	6/4
Vinolia Medicated Soaps—							
Sulphur, Terebene, Carbolic, Coal Tar	1/-	3½d. per tablet, 10d. per box of 3	9/-	7/2
Blondeau Toilet Soaps, with favourite perfumes—							
Blondeau Cucumber and Glycerine Soap ... ..	...	...	...	1/6	4½d. per tablet, 1/1½ per box of 3	12/-	9/7
" Baby Soap ... ..	...	...	...	
" Cold Cream Soap ... ..	...	...	...	
" Lys de France Soap ... ..	...	...	...	
" Maréchal Niel Soap ... ..	...	...	...	
" Oriental Soap ... ..	...	...	...	
" Heliotrope Soap ... ..	...	...	...	2/-	6d. per tablet, 1/6 per box of 3	16/-	12/10
" Musk Lavender Soap ... ..	...	...	...	
" Lettuce Soap ... ..	...	...	...	
" Marequil Soap ... ..	...	...	...	
" Jequilla Soap ... ..	...	...	...	
" Shampoo Soap ... ..	...	...	...	
" White Rose and Cucumber Soap ... ..	...	...	...	2/6	1/10½	20/-	16/-
" Violet Soap ... ..	...	...	...	3/-	2/3	24/-	19/2
" Opoponax Soap ... ..	...	...	...	
Old English Toilet Soaps Improved—							
Blondeau Brown Windsor Soap ... ..	...	...	...	
" Honey Soap ... ..	...	...	...	
" Elder flower Soap ... ..	...	...	...	2/- per box of 12	2d. per tablet, 3 tablets for 5d. 1 box of 12 tablets 1/8	1/6	1/2
" Oatmeal Soap ... ..	...	...	...	
" Almond and Glycerine Soap ... ..	...	...	...	
" White Rose and Cucumber Soap ... ..	...	...	...	
" Floral Vinolia Soap ... ..	...	...	...	1/6	5d. per tablet, 1/3 per box of 3	13/9	11/-
Vinolia Pastilles, per box ... ..	...	...	...	1/-	10d.	9/2	7/4
Vinolia Shaving Foam Toilet ... ..	...	...	...	1/-	10d.	9/2	7/4
" " " Vestal ... ..	...	...	...	1/6	1/3	13/9	11/-
" " " " " " " " " "	...	...	...	2/6	2/2	22/10	18/3
Vinolia Brilliantine—							
For the Hair	1/-	9d.	8/-	6/5
" " " " " " " " " "	2/-	1/6	16/-	12/10
" " " " " " " " " "	3/6	2/7	28/-	22/5
For the Moustache	1/-	9d.	8/-	6/5
" " " " " " " " " "	2/-	1/6	16/-	12/10
" " " " " " " " " "	3/6	2/7	28/-	22/5
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No. 1. 2-oz. small bottles	1/6	10½d.	9/6	7/7
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No. 3. Small wicker " " " " " "	3/6	2 5½	27/3	21/10
No. 4. Medium " " " " " "	6/6	4/10	55/-	44/-
Lypsil (in flat Metal Cases, without the octagonal outers)	6d.	5d.	4/-	2/- net (Extra special price. Note the great reduction on this line)
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Vinolia Bouquet	Ess. Bouquet						
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Marequil	Millefleur						
Losaria	Maréchal Niel	1/3	11½d.	10/-	8/-		
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White Rose	Musk	3/-	2 3½	24/-	19/2		
Opoponax	Ambergris	5/-	3 9½	40/-	32/-		
Stephanotis	Amayllis	9/-	6 10	72/-	57/7		
Ylang-Ylang	Jasmine						
Frangipanni	New Mown Hay						
Wood Violet	Honeysuckle						
	Musk Rose						
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Vinolia Soap (Otto Toilet)	1½d.	—	1/-	10d. doz.
" (Balsamic Medical)	1½d.	—	1/-	10d. doz.
" (Premier)	2d.	—	18/4 gross	14/8 gross
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Vinolia Perfumes	3d.	—	2/- doz.	1/7 d z.
Vinolia Eau de Cologne	(Exception)	3d.	—	22/6 gross	20/3 gross
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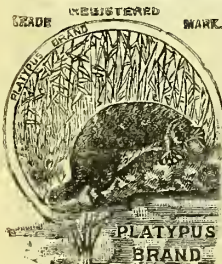
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The tones are exceedingly delicate, ranging from warm sepia to soft black.

Great richness of detail, softness, and fidelity of gradation are obtained.

## BROMIDE PAPERS.

For enlarging, or for printing by contact from negatives. Unequalled for perfection of coating, delicacy of gradation, clearness and depth of shadows, and uniformity.

"PERMANENT." Specially suitable for printing by contact from soft and delicate negatives, and for enlarging by daylight.

"EXTRA RAPID." Specially suitable for printing by contact from hard and dense negatives, and for enlarging by artificial light.

The papers are coated in three grades, and are known as "A" Thin, Smooth. "B" Thick, Smooth. "C" Thick, Rough.

## PLATINO BROMIDE PAPER.

An argentic Bromide paper, which gives the effects of Platinotype, and is at the same time far easier to work. It is distinguished by the soft grey and rich velvet and Platinotype tones, with the perfect matte surface of the finished print on both the rough and smooth paper.

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For enlarging, or for printing by contact from negatives. Combines the soft effect of a platinum or bromide tone with a highly enamelled surface. It has a delicate pink tint, and is especially recommended for those who prefer a warmer tone than that of the ordinary bromide print.

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Have obtained the

# ONLY GOLD MEDAL

Awarded to Mineral Water Manufacturers of Great Britain

At the ANTWERP EXHIBITION.

FIVE OTHER GOLD MEDALS AWARDED AT RECENT  
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All Chemists should Sell these Well Known Waters, which command  
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PRICE LIST & SAMPLES FREE.

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## MANUFACTURERS.

### THE "COMPACT" CONTINUOUS ACTION SODA-WATER MACHINE.

Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

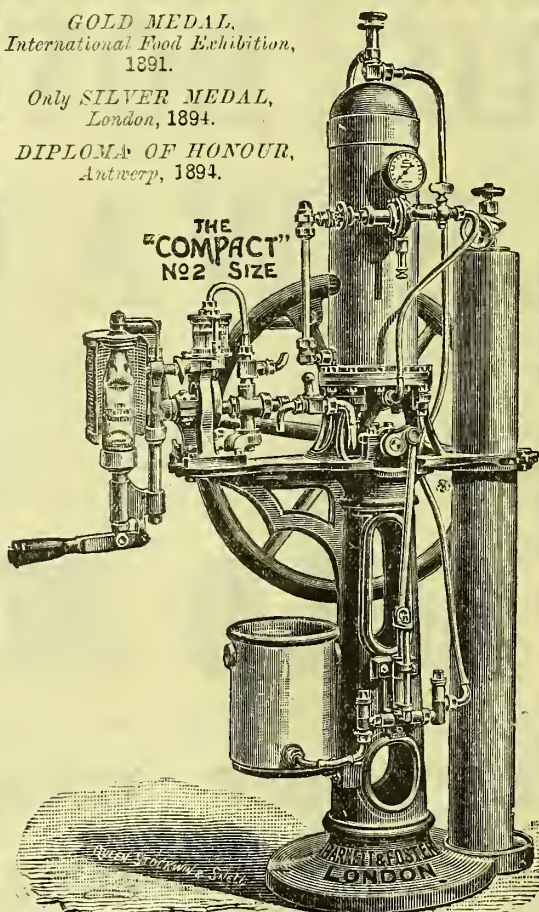
**NO DANGER.**  
**NO MESS.**  
**PERFECTLY**  
**RELIABLE.**

**TWO FILLERS**  
**INCLUDED.**

*GOLD MEDAL,  
International Food Exhibition,  
1891.*

*Only SILVER MEDAL,  
London, 1894.*

*DIPLOMA OF HONOUR,  
Antwerp, 1894.*



We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

**In use by  
Leading Chemists in  
all parts of the  
United Kingdom.**

**No. 1 Size**, complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by power ... Code word (*Supremacy*) **£60**  
Producing Capacity by Hand-power 600 dozen per day.  
" " Power 1,200 " "

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Producing Capacity by Hand-power 200 dozen per day.  
Syrup Pump fitted to the Turnover Filling Machine on either of above (*Injecto*) £2 extra. If fitted with one Filling Machine only, the two largest Machines are charged £3 less than above prices.

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**"NIAGARA" BOTTLE AND THE LONDON-MADE SYPHON**  
**KNOWN ALL OVER THE WORLD.**

*Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.*

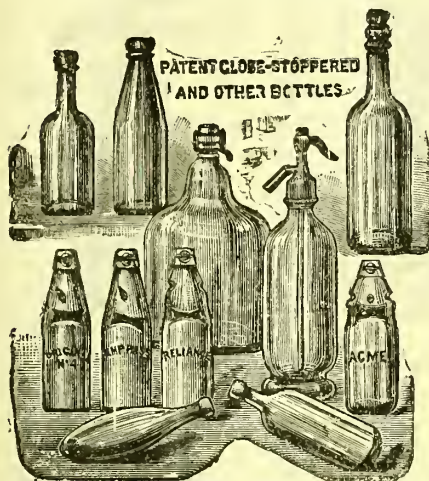
**NIAGARA WORKS, 26<sup>T</sup> EAGLE WHARF ROAD, LONDON, N.**





# DAN RYLANDS, LIMITED.

Glass Bottle Manufacturers, Box and Case Makers, Soda-water Machinery Engineers, and General Providers to the Mineral Water Trade.



## GLASS BOTTLE DEPARTMENT.

We have had over TWENTY YEARS' experience in the making of Globe Stoppered Bottles, and have manufactured more than all other firms in the World put together. RYLANDS' "Valve," "Reliance," "Acme," and "Original No. 4," are the leading Bottles in the Trade. All our Bottles are made with a patent tool of which we are the Sole Owners, and the grooves produced therewith will be found the most reliable in the market. All Buyers should see that the name of "DAN RYLANDS" and a figure 4 are stamped upon each bottle, in order to ensure our special manufacture and extra strength of glass. The names of our various shapes of Globe-stoppered Bottles are also registered, and should be used by buyers when placing their orders.

Our Syphon Bottles are of the very first quality, with pure block-tin Tops and strong brilliant, pressure-resisting glass, elegant in appearance, and of simple construction. All kinds of screw-mouth and cork bottles for the aerated-water trade.

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## ESSENCE DEPARTMENT.

Our Essences, Tinctures, and other ingredients are prepared by the Standard Essence Co., for whom we are sole agents. Their superior preparations are produced by a process which preserves the full natural aroma of the Fruits. These essences are highly concentrated, of exquisite flavour, and absolutely pure.

Essential Oil of Lemon, Acids, and Colourings of the finest quality and at moderate prices.

## Try "MELOKA," Our New Beverage.

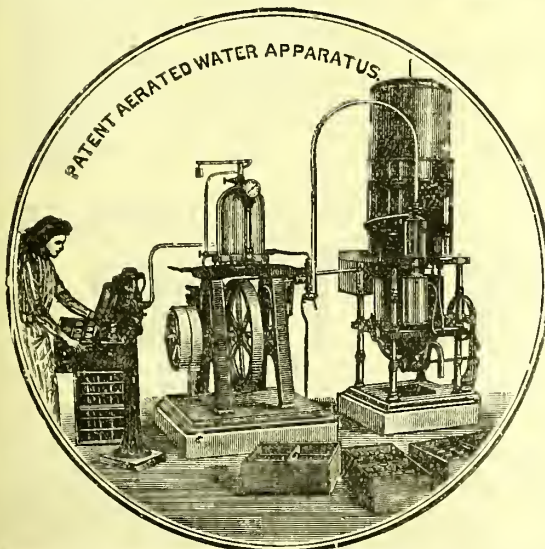


## SODA-WATER MACHINERY DEPARTMENT.

This Machinery possesses exceptional merits. The Aerated Waters it produces may be relied upon for uniformity of quality, and as regards economy our Patent Plants eclipse all others. They save materials, power, space, labour, time, and money.

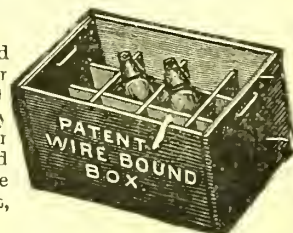
We are also supplying our Patent Machines adapted for using Liquefied Carbonic Acid Gas, to all who prefer this system of Aerated Water making. They are strong, simple, easily managed, and reliable. Pure Compressed Carbonic Acid Gas supplied.

Our Filling Machines are the most popular and leading fillers in the market. All kinds, for hand or power, for corks or patents. Of our Paragon Fillers there have been nearly 5,000 sold.



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Our PATENT WIRE-BOUND and "DINO" BOXES are far superior to hoop-ironed boxes, which catch and drag against everything they come in contact with. In our ooxes, the wire is well protected from wet and rust, and these boxes are the strongest, lightest, and neatest in the trade.



Catalogues and Price Lists free on application.

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Messrs. J. BARRE JOHNSTONE & CO., 20 Loftus St., Sydney, N.S.W.  
Agents for New South Wales, Queensland, and New Zealand.

**SODAWATER  
MACHINERY**  
AND APPLIANCES  
**BRATBY & HINCHLIFFE LTD**  
AND COATS 146 MINORIES  
**MANCHESTER LONDON**  
81 ROBERTSON STREET, GLASGOW.

## PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

## SELTZOGENES.

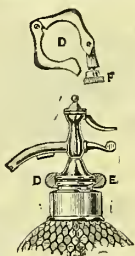
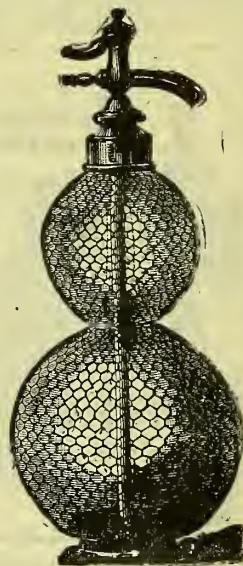
|     |     |     |     |      |            |
|-----|-----|-----|-----|------|------------|
| 1   | 2   | 3   | 4   | 5    | 8 pint.    |
| 6/- | 6/8 | 7/6 | 8/6 | 10/5 | 16/- each. |

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.

Messrs. NOYES BROS., 48 Queen Street, Melbourne, Victoria,  
Agents for Victoria, South and West Australia, and Tasmania.



## THE NEW PATENT "CLINCHER"

Is the latest thing in Seltzogenes.

Every Chemist should see this New Invention before ordering any more Ordinary Screw Taps. ...

NO SCREWS TO CORRODE OR GET JAMMED.

EASY, RAPID, AND EFFECTIVE IN USE.

**SYPHONS & SELTZOGENES.**

## SYPHONS

EIGHT HIGHEST AWARDS  
SUPERIOR QUALITY.  
ENGLISH MAKE.

HEADS: Of Guaranteed Metal, Plain Burnished, Nickelled or Silver-plated.

VASES: Of Extra Strength, Finest Crystal and Colours; ornamentally Engraved; 18 to 50 oz. Capacity.

THE "MAJOLICA" SYPHON, Porcelain-lined Head, is specially adapted for a Chemist's trade. See *Lancet* Report.

LOWEST PRICES, consistent with FIRST QUALITY AND WORKMANSHIP, on application to

THE BRITISH SYPHON M'FG. CO., 2 Gresham Buildings, Guildhall, LONDON, E.C.

# THE PASTEUR GERM FILTER.

The PASTEUR FILTER prevents the passage of Microbes of any kind, is difficult to break and easy to clear, and is effectual in preventing Epidemics of Cholera, Typhoid Fever, Diarrhoea, and similar diseases.

*The British Medical Journal* (August 25, 1894) says:—"Its application for some years in 200,000 quarters of the French Army has shown that it is effectual in preventing epidemics of Cholera, Typhoid Fever, Diarrhoea, and similar diseases."

M. de Freycinet (Report of Minister of War to President of the French Republic, *Journal Officiel*, February 14, 1892) says:—"Wherever the Pasteur Filter has been applied to water previously bad, Typhoid Fever has disappeared." At this date over 200,000 quarters of the French Army were fitted with Pasteur Filters.

Sir Henry E. Roscoe, M.P., Ph.D., F.R.S. (*Westminster Gazette*, September 8, 1893), says:—"Ordinary filters are no good at all. The only filter that protects the water-drinker from the germs is the Pasteur Filter."

After eight months' investigation in the Public Health Laboratory of the University of Edinburgh to estimate the value, in prevention of disease, of the best known Carbon and Asbestos Filters, of the Pasteur Filter, and of a copy of it in another material, Dr. H. H. Johnston, D.Sc., M.D., O.M., states:—"The Pasteur-Chamberland Filter is undoubtedly the best, and the only one in which reliance can be placed for permanently sterilising drinking water."

Made in a variety of Patterns for Industrial and Domestic purposes.

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SANITARY DEPARTMENT, LONDON, E.C.



# NATURAL MINERAL WATERS

**Packing  
Free.**

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**Carriage  
Paid.**
**LONDON—52 Farringdon St., E.C.**
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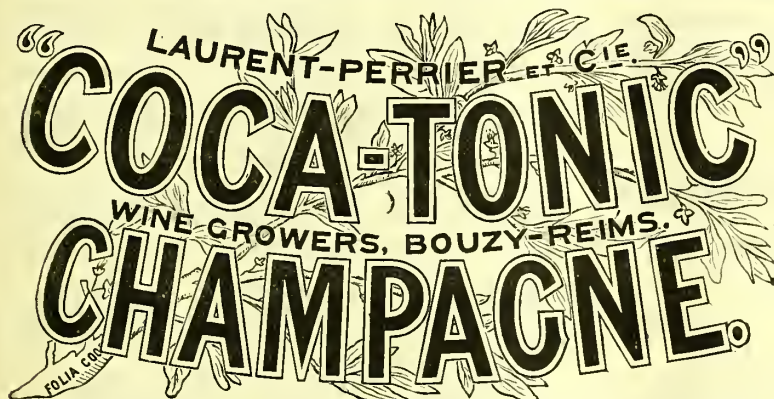
# VICHY

**SOLE IMPORTERS OF**
**(STATE SPRINGS)**

# VICHY

**ÆSCULAP, CARLSBAD, CARLSBAD SALTS, LA-BOURBOULE, OBERBRUNNEN, ROSBACH, VALS, ETC.**

| NAME           | Per Dozen |         | Original Packages |           |           |           | NAME                              | Per Dozen |         | Original Packages |           |           |           |
|----------------|-----------|---------|-------------------|-----------|-----------|-----------|-----------------------------------|-----------|---------|-------------------|-----------|-----------|-----------|
|                | Bots.     | ½ Bots. | Bottles           | ½ Bottles | ½ Bottles | ½ Bottles |                                   | Bots.     | ½ Bots. | Bottles           | ½ Bottles | ½ Bottles | ½ Bottles |
| ÆSCULAP        | 15/-      | 12/-    | 25                | 30/-      | 50        | 50/-      | Levico                            | 15/-      | —       | —                 | —         | —         | —         |
| apollinaris    | 3/-       | 5/-     | 30                | 25/-      | 100       | 50/-      | Pullna                            | 12/-      | 8/-     | 40                | 36/-      | 40        | 25/-      |
| Barium         | 9/-       | 5/6     | 50                | 36/-      | 100       | 43/-      | Reginaris                         | 5/6       | 4/6     | 50                | 21/-      | 50        | 16/6      |
| Bourboule (La) | 11/-      | —       | 50                | 42/-      | —         | —         | Rosdorf                           | 6/-       | —       | 50                | 25/-      | —         | —         |
| Carlsbad       | 12/-      | —       | 50                | 46/-      | —         | —         | Rosbach                           | 6/-       | 5/-     | 50                | 25/-      | 100       | 39/-      |
| CONDAL         | —         | 14/-    | —                 | —         | 50        | 56/-      | Royat                             | 9/-       | —       | 50                | 34/-      | —         | —         |
| Contrexville   | 9/-       | —       | 50                | 35/-      | —         | —         | Rubinat                           | 15/-      | 8/-     | 25                | 30/-      | 100       | 60/-      |
| Flitwick       | 24/-      | 15/-    | —                 | —         | —         | —         | St. Galmier                       | 6/-       | 4/6     | 50                | 22/-      | 100       | 34/-      |
| Franz-Josef    | 15/-      | 12/-    | 25                | 30/-      | 50        | 42/-      | St. Marco                         | 11/-      | 0/6     | 50                | 42/-      | 100       | 52/-      |
| Friedrichshall | 13/-      | 10/-    | 25                | 25/-      | 50        | 40/-      | Salutaris (including bottles)     | 4/-       | 2/6     | —                 | —         | —         | —         |
| Geroistein     | 15/-      | 4/-     | 50                | 20/-      | 50        | 15/-      | Selters                           | 6/-       | 4/6     | 50                | 24/-      | 50        | 17/-      |
| Gunyadi-Janos  | 11/6      | 9/-     | 25                | 21/-      | 50        | 34/-      | Vals                              | 8/6       | —       | 50                | 33/-      | —         | —         |
| Johannis       | 6/-       | 4/6     | 50                | 22/-      | 100       | 35/-      | VICHY (State Springs)             | 8/6       | 6/6     | 50                | 33/-      | 50        | 25/-      |
| Kronenquelle   | 10/-      | —       | 50                | 38/-      | —         | —         | "Celestins," "Grande-Grille," &c. | —         | —       | —                 | —         | —         | —         |
| OBERBRUNNEN    | 9/-       | —       | 50                | 36/-      | —         | —         |                                   |           |         |                   |           |           |           |

**CARRIAGE PAID, excepting SALUTARIS. Detailed Price List and Pamphlet on application.**

**Full Particulars of HERTZ & COLLINGWOOD, 4 SUSSEX PLACE, LONDON, E.C.**

**IMPORTANT REDUCTION IN PRICES.  
FINEST CRUSHED LINSEED.**
**GUARANTEED ABSOLUTELY PURE.**
**NO OIL EXTRACTED, NO BUFFAM ADDED.**
**£14 per ton; 15/- per cwt., carriage paid.**
**SIZER BROS., Seed Crushers, Tower Oil Mills, HULL.**
**Sugar Free.**
**Carefully Standardised.**
**Prepared by Actual  
Champagne Growers.**
**Prescribed as the Best  
Restorative Tonic for  
Influenza, and in cases  
of Insomnia, Neuras-  
thenia, etc.**
**In Bottles, 2/- and 3/9.**
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## BLACK CURRANT LOZENGES

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| Plain Black Currant, old square 2/6 | Black Currant Voice (warm             |
| Plain Black Currant, rough oval 2/6 | astiringent) .. .. . 3/               |
| Black Currant and Ipecacuanha 2/6   | Black Currant Cough Lozenges* 3/6     |
| Black Currant and Tannin .. 3/      | *Ipecac. & Morph., strength as "B.P." |

**In Bottles, 1-lb., 2-lb., 4-lb., and 7-lb. For exportation, in soldered Tins, of any size. From W. EDWARDS & SON and J. SANGER & SONS, London; through any Wholesale House; and from the Manufacturers,**
**RANDALL & SON, SOUTHAMPTON,  
(W. B. RANDALL, H. WILSON),**
**Who will forward Samples by post on application.**
**Also Brown Cough Lozenges, 2/-; 7 lbs. stamped with name free.  
N.B.—Medical Lozenges of every kind, including those of the Pharmacopœia of the Hospital for Diseases of the Throat, London, made with Black or Red Currant.**



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## Royal Leamington

### APNEUMATIC

# TABLE WATERS

Were first supplied to H.M. the Queen in 1858,  
and to H.R.H. the Prince of Wales in 1862.

# KINMOND'S

# GINGER ALE,

AND ALL THEIR OTHER WATERS,  
Are UNRIVALLED for PURITY and QUALITY.

*In Ordinary Bottles and Syphons.*

## MANUFACTORY-

# LEAMINGTON.

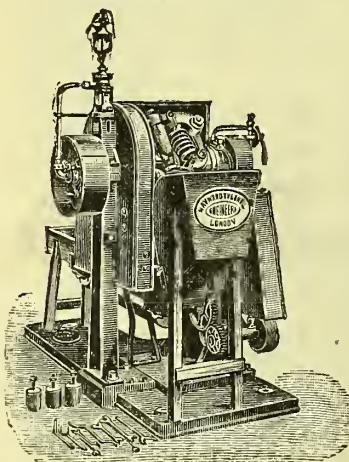
*Send for Trade List and Compare Prices.*

# HAYWARD TYLER & CO.

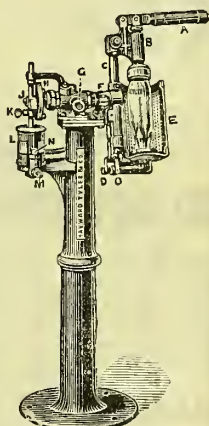
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# AËRATED WATER MACHINERY

FOUR GOLD MEDALS.



Revolve for Ball Stoppers.



Turnover Filler.

Telegrams—"Tylerox."

Telephone No. 192. [2]

90, 92 WHITECROSS STREET, E.C.

EIGHT PRIZE MEDALS AWARDED

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# HOUSEHOLD

# SPECIALITIES.

## YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6d., 1s., & 2s. each.

## GOODALL'S BAKING POWDER.

The Best in the World. 1d. packets; 6d., 1s., 2s., and 5s. Tins.

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One 6d. Tin is equal to 25 Eggs. In 1d. packets; 6d., 1s., and 5s. Tins.

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Delicious Custards without Eggs. In Boxes, 2d., 6d., & 1s. each.

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Delicious Blancmange in a Few Minutes. Boxes, 6d. and 1s. each.

## GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6d., 1s., and 2s. each.

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Makes the Best Ginger-Beer. Packets, 3d. and 6d.

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For Painting Stoves, Grates, Iron, Tin, &c. 6d. and 1s. Bottles.

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Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

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For Polishing and Cleaning all Metals. Boxes, 6d., 1s., and 2s.

## GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In 1-pint, 1-pint, and Quart Boxes, 3d., 6d., and 1s. each.

PROPRIETORS—GOODALL, BACKHOUSE & CO., LEEDS.

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AND

# DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.



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WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

|                                         | Per gross. | Extra quality. |                                                 | Per gross. | Extra quality. |
|-----------------------------------------|------------|----------------|-------------------------------------------------|------------|----------------|
| 14. Sample Bottles, dozen parcels .. .. | 5/3        | 6/3            | 4 Bottles, flat or round, reputed half-pints .. | 16/-       | 28/-           |
| " 1-gross boxes .. ..                   | 5/9        | 6/9            | " 1 Pint Imperial, round stoppered bottles ..   | 26/-       | 38/-           |
| 1d. Giant " dozen parcels .. ..         | 6/-        | 8/6            | 124-Gallon Casks (casks free) .. .. each        | 62/-       | 82/-           |
| " 1-gross boxes .. ..                   | 6/6        | 8/-            |                                                 | 20/-       | 32/-           |

**ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.**

Square Glass Stoppered Bottles, containing nearly 1-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

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CHIEF SCOTCH AGENCY — West Nile Street. GLASGOW.



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COMMANDS A PREFERENCE OVER  
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ESTABLISHED OVER 200 YEARS.

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CHEMICAL MANUFACTURERS,  
CRAYFORD MILLS, STRATFORD, LONDON.

Manufacturers of the Finest Steam-made

**GRANULAR EFFERVESCENT PREPARATIONS**

**ACETIC ACID. ACETATE POTASSIUM.**

SPIRIT AND VINEGAR COLOURING.

**GLYCERINE FRUIT ESSENCES, &c.**

Sole Proprietors and Manufacturers of

THE NEW PRESERVATIVE:

**SEMPER-DULCIS OR EVER-SWEET,**  
For Milk, Cream, Butter, Sausages, &c., &c.

**FINEST BUTTER-COLOUR (Buttercup Brand)**  
SEND FOR QUOTATION

## CHAS. SOUTHWELL & CO.

Wholesale and Export Manufacturers of

**LEMON SQUASH,**

**ORANGE SQUASH,**

**LIME JUICE CORDIAL.**

Also **GRANULAR EFFERVESCENT CITRATE OF MAGNESIA,**  
**EFFERVESCENT SUMMER SALINE,**

**PERSIAN SHERBET, ETC., ETC.**

Prepared under the superintendence of a duly qualified  
Analytical Chemist.

CHAS. SOUTHWELL & CO., Dockhead, LONDON, S.E.



# TOWER

# TEA

FIVE HIGHEST AWARDS, LONDON & PARIS.

None genuine without both the Registered Trade Mark  
and also the signature

*Tower Tea*

**TOWER TEA** daily gains in popularity with the public.

**TOWER TEA** is neatly packed in smart and pretty packets.

**TOWER TEA** is retailed at prices ranging from 1/- to 2/8 per pound.

**TOWER TEA** is sold by Chemists in all parts of the United Kingdom.

**TOWER TEA** advertisements are suitable for high-class Chemists' establishments.

WHERE VACANCIES EXIST, AGENTS ARE APPOINTED BY

**THE GREAT TOWER STREET TEA CO., LTD., 5 JEWRY STREET, LONDON, E.C.**



# THE SPECIAL ATTENTION OF CHEMISTS

IS DRAWN TO THE FOLLOWING:—

## LINSEED, LIQUORICE, AND CHLORODYNE COUGH LOZENGES.

### A HANDSOME COUNTER MAHOGANY SHOW CASE

Given to any Chemist buying 1 cwt. of above Lozenges. Price 1/- per lb. net.

## GIBSON'S VOCAL LOZENGE

**"TOP NOTE PRODUCERS."**

The immensely increasing demand for these Lozenges, and their wonderful popularity, is entirely due to their intrinsic merits, not only as producers of a fine clear voice, but as an effectual remedy for all Chest Affections. Sore Throats, arising from cold, seem to disappear as if by magic; Tickling in the Throat or Hoarseness is removed by allowing a few Lozenges to gradually dissolve in the mouth; indeed, Debility and Weakness of the Vocal Organs are unknown to those who regularly use these valuable Lozenges. Sold in 1/1½ and 2/9 Boxes.

## CHERRY BLOSSOM LOZENGE,

The most delightful and delicately perfumed Lozenge ever produced; have an immense sale.

*With 4 lbs. of these Lozenges we give one of Mellin's Patent White-glass Silver-top Screw-stoppered Bottles.*

## VOICE AND THROAT LOZENGES, FOR SINGERS AND PUBLIC SPEAKERS.

## DIGESTIVE DINNER TABLETS,

Composed of Bismuth, Cardamom, Soda, Rhubarb, Ginger, &c.

## CHOCOLATE WORM CAKES,

Very palatable and unusually attractive.

Packed in Tins, each containing 3 doz., 6 doz., or 12 doz. Cakes. Retail at One Penny each.

## Sugar Worm Cakes,

Contain Calomel, Jalap, and Santonine (flavoured with Raspberry), are palatable and very effective.

As they will keep in any climate, a steadily increasing demand is made for them for EXPORT.

Put up in 3-doz., 6-doz., and 1-gross Tins.

[1]

Indents from abroad, marked "GIBSON," may be sent to any Wholesale Drug or Shipping House in the Kingdom.

Price Lists sent on application to

# ROBERT GIBSON & SONS, CARLTON WORKS, MANCHESTER.

AND

NO. 1 GLASSHOUSE YARD, ALDERSGATE STREET, LONDON.



Telephone Number, 1852.

Telegraphic Address—CHEMICUS LONDON.

## ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS

## INDEX TO ADVERTISEMENTS APPEARING IN THIS ISSUE.

NOTE.—The Folios shown in this Index are those at the FOOT of the Page, and not at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.

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MR. HOPE, Westhoughton. | MR. MOORHOUSE Barnsley.  
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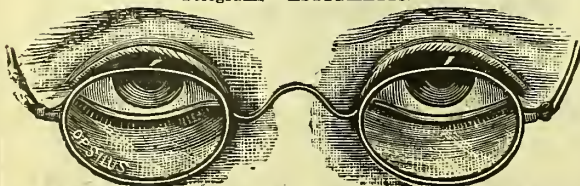
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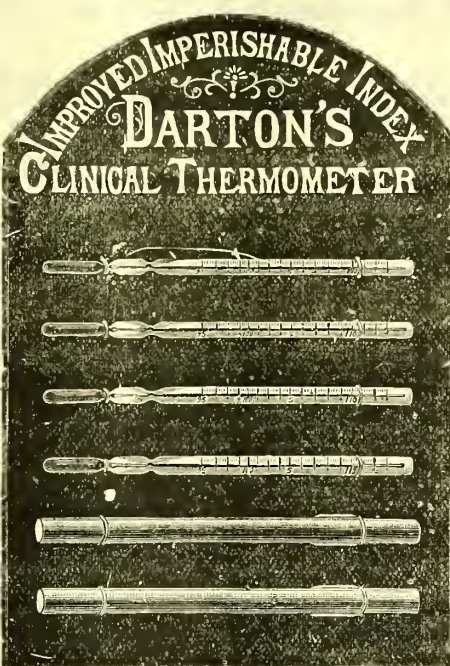
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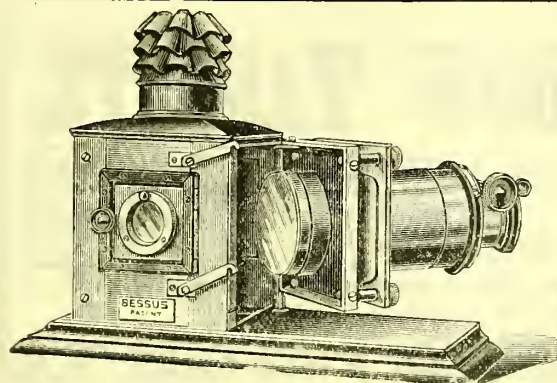
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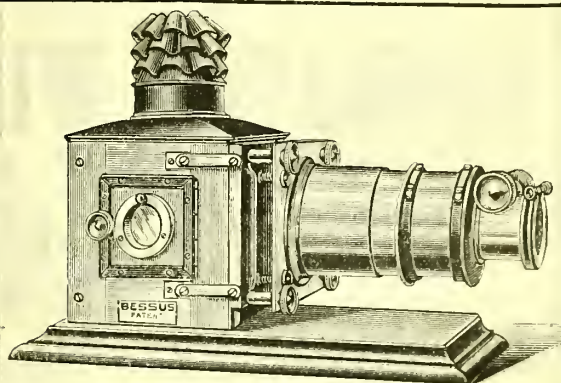
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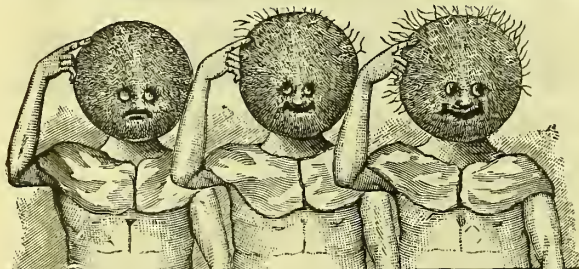
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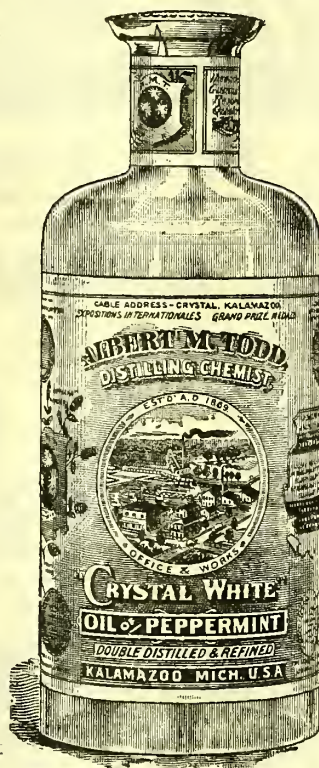
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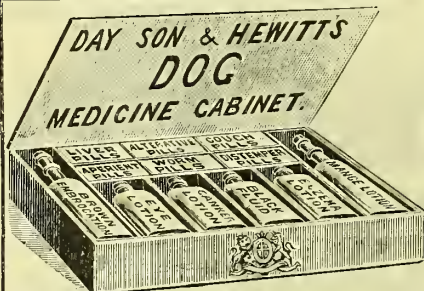
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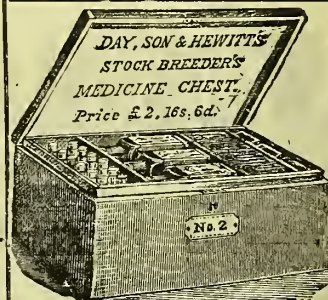
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THE value of Cod-liver Oil as a tissue-forming, force-producing, and nutritive food was formerly so greatly impaired by the difficulties attending its administration, that it is greatly to be wondered at that it did not altogether go out of use. And this is also remarkable

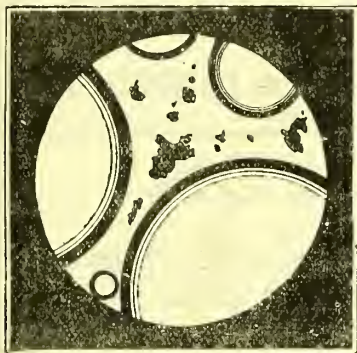


PLATE No. 1.—A fair example of the Cod-liver Oil Emulsions on the Market, magnified 400 diameters.

on another account. Plain Cod-liver Oil has been shown to be assimilated to such a partial extent that the unpleasant and nauseating effects produced by taking it into the stomach must have been scarcely compensated by the benefit derived. But even in the early days of its use its ultimate important position as a medicinal agent was foreseen, so pharmacists set about trying their best to devise, in the first place, methods of rendering it as pure as possible, and, in the second place, means of sophistication so as to cover the nauseous taste, to render it comparatively palatable, and to enable as large a proportion of it as possible to be absorbed into the system.

The former of these objects was not specially difficult of attainment, but the latter problem was for years tackled in vain. It was attempted to emulsify the Oil with gums, alkalies, &c., but although preparations so treated were sometimes less unpleasant to swallow, when taken into the stomach the oil globules were found to coalesce through the warmth of the body, and the consequent eructations were as bad as when the oil was administered *per se*.

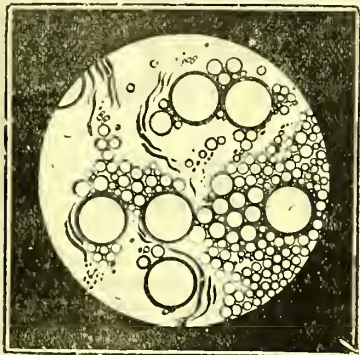


PLATE No. 2.—Emulsion of Oil and Milk, magnified 400 diameters.

Plate No. 1 represents an emulsion strong with essential oils and gums. So large are the oil globules that a segment of one of them occupies a goodly portion of the field. Small wonder that many maintain that it is preferable to take Cod-liver Oil plain than emulsified. Plate No. 2

represents what is claimed to be the most finely divided of all emulsions. Not only is it liable to go "queer," throwing down a precipitate, &c., but the size of the large circles (the small ones are milk) convey a good idea of how indigestible must be the oil even in the best of emulsions. The microscopic appearance of the globules in milk (Plate No. 3) forms a strange contrast with that of the two products before mentioned. The fat of milk is, of course, in a highly assimilable form. But for a long time emulsions held the field and were regarded as the most practical method of preparing Cod-liver Oil.

But the Kepler Solution of Cod-liver Oil in Extract of Malt was the final "solution" of the difficulty. The reason for past failures was at length revealed; Cod-liver Oil had been treated as a drug, whereas it should have been treated as a food. It was at length apparent to us that the only rational method of taking it was with another food, as all other oils and fats are taken, and we resolved to test the capabilities of the Kepler Malt Extract as a medium for the administration of Cod-liver Oil. Our experiments were entirely successful, since it was found that by centrifugal motion, induced by machinery, Cod-liver Oil was completely dissolved in Extract of Malt, the presence of the latter materially aiding the assimilation of the Oil, and at the same time thoroughly masking its unpleasant taste and removing the possibility of the production of nauseous effects.

Kepler Solution does not disturb the stomach like emulsions, and under the microscope (Plate No. 4) no oil globules are visible, and the field is perfectly clear. Being simply a combination of two foods—Cod-liver Oil and Extract of Malt—it naturally agrees better than oil and chemicals. It is in no sense an emulsion, for, as Mr. Godwin Clayton says, "Its constituents are in a more intimate admixture—namely, that of solution."

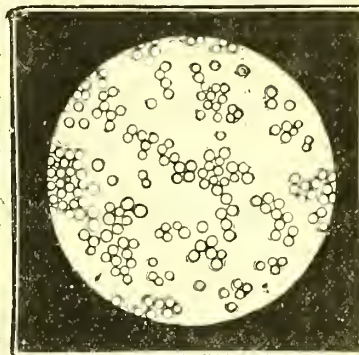


PLATE No. 3.—Pure Milk, magnified 400 diameters, showing oil globules.

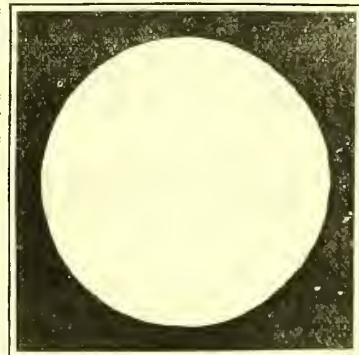


PLATE No. 4.—Kepler Perfect Solution of Cod-liver Oil, magnified 400 diameters.

Supplied to the Trade in Bottles of two sizes, at 20/- and 36/- per dozen.

"The Kepler Solution is an ideal form for the administration of fat."—BRITISH MEDICAL JOURNAL.

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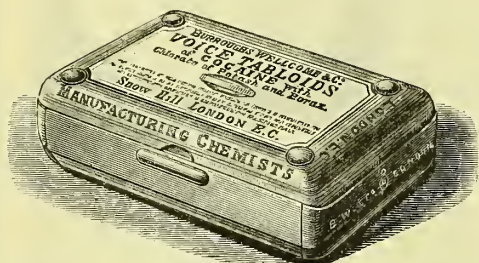
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AS AN OFFICIAL JOURNAL

THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—PHARMACEUTICAL SOCIETY OF IRELAND, SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION, OTAGO PHARMACEUTICAL ASSOCIATION, PHARMACEUTICAL SOCIETY OF QUEENSLAND, PHARMACEUTICAL SOCIETY OF SOUTH AUSTRALIA, PHARMACEUTICAL SOCIETY OF WESTERN AUSTRALIA, and TASMANIAN PHARMACEUTICAL SOCIETY.

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## EXPORT TRADE.

THE CHEMIST AND DRUGGIST for March 23 is to be sent to every firm in the United Kingdom who exports druggists' goods. This is in continuation of a special circulation which we initiated many years ago, and which has proved eminently successful; for by it we have been able to bring together those firms who act for large buyers abroad, and manufacturers and agents for, or dealers in, drugs, chemicals, perfumery, paints, varnishes, aerated-water plant, bottles, and druggists' sundries of all kinds. The issue has been fruitful in bringing inquiries and securing new business and indents. The circulation to merchants will, of course, be in addition to the regular issue of THE CHEMIST AND DRUGGIST to its subscribers throughout Europe, Asia, Africa, India, America, and Australasia—the largest and most important subscription-list possessed by any drug-trade journal in the world. Advertisers who think of taking space in the issue should address the publisher at once.

## OUR COMPETITIONS.

THERE will be no Postcard competition this month, as we have still much matter to dispose of in connection with the last three competitions. We hope this month to make the awards in connection with these, and also in the Foreign and Colonial section of the DIARY Coupon Competition.

## Summary.

SIR HENRY ROSCOE does not approve of the Hermite system of purifying sewage (p. 339).

THOSE who are interested in the purchase of disinfectants will find some varied prices in a paragraph on p. 334.

A SKELMERSDALE Coroner's jury has been unable to agree as to the culpability of the chemist's junior who gave tr. opii for black draught (p. 333).

WE inaugurate to-day a series of papers on constructive criticism of the British Pharmacopœia to which eminent pharmacists are to contribute (p. 346).

A FRESH outbreak of carbolic-acid fatalities is noticeable, and the Birkenhead Coroner has called attention to the unrestricted sale of the poison (p. 333).

WE continue the sketches of students, the one dealt with this week being the young amateur who buys test-tubes by the couple and asks many questions (p. 350).

SOME rather sensational statements, about the manner in which meats are packed and extract of meat is made in certain Chicago factories, are quoted on p. 350.

MR. SAGE and Mr. Gunn furnish descriptions of two useful pieces of apparatus, the first for distilling aromatic waters, and the other a syphon-filtering arrangement (p. 340).

TWO of the Bengal Government chemical examiners propose a scheme to regulate the sale and use of poisons in India, which we comment upon, in some respects unfavourably (p. 348).

WE give portraits of the members of the London County Council recently elected who are connected with chemistry, and we also note the elections of several chemists in other County Councils (p. 332).

MESSRS. S. MAW, SON & THOMPSON do not agree with Messrs. Allen & Hanburys' anti-cutting scheme, and they tell us the reasons why. Mr. F. J. Hanbury reports that the scheme is working well so far, and they mean to keep it up (p. 351).

THERE was little of interest at the Pharmaceutical Council meeting on Wednesday, except a resolution that a Pharmacy Bill should not be promoted this session, and an intimation that consideration of the Dunstan affair is postponed for a month (p. 338).

MR. CHANEY and Mr. Dawson, of the Decimal Association, have given evidence before the Weights and Measures Commission (p. 333). The object of the inquiry is to see what may probably result should metric weights and measures be legalised for export-trading. We comment on the matter (p. 347).

PROFESSOR CARTER, of Liverpool, in "Nature's Polypharmacy," puts in a sensible plea for some old-fashioned prescribing, pointing out that it is impossible to acquire exact knowledge of therapeutics by physiological experiments, and that the teaching of experience should not be ignored (p. 341).

MR. FREUND replies to Mr. Dunstan's claim for priority in respect to the constitution of aconitine. He severely criticises the discrepancies between the abstracts and papers as published after Freund and Beck's publication, and intimates that Mr. Dunstan has not fulfilled his promise to give particulars of his research. Those matters are dealt with in an article on p. 348.

WE report from the law courts that Messrs. Beecham have obtained an injunction restraining a Hulme firm from selling spurious Beecham's pills. A retailer has been fined in respect to deficient seidlitz-powders, and Townson & Mercer have had to pay 20l. damages for giving a man tartaric acid instead of Glauber's salts (p. 343). The Board of Inland Revenue have prosecuted the Carbolic Smoke-ball Company for selling their article unstamped, and the Magistrate has fined the company. The Board had at one time considered the ball not liable, but had notified their change of mind. Messrs. Idris & Co. have obtained judgment against Mr. Black, an exhibition promoter, for the recovery of 12l. 12s., expenses they were put to in connection with a proposed exhibition which was never held (p. 344).





## English News

*The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.*

### The Kleptomaniacs and the Druggists.

At Leamington on Friday, March 1, Eugenie Margaret Valter, and Catherine Wilkinson, women of good social position, were charged with seven cases of shoplifting. Thomas Tyerman Sturdy, assistant to Mr. Wilson, chemist, said that on Saturday he served the two defendants with an ounce of electuary of senna. He had to leave the shop, and in the passage met Mr. Wilson and a policeman. In consequence of their statement he watched the shop from a window, and saw Valter take a bottle of perfume from a stand and rearrange the bottles to fill up the gap. On returning to the shop he spoke to the defendants. Valter admitted taking the perfume, but said it was her intention to pay for it. On her bag being searched a bottle of cod-liver oil was also found. Valter pleaded guilty, and Wilkinson not guilty. For the defence, Dr. Parkes, of Birmingham, said he had attended Mrs. Wilkinson, since July of last year for attacks of heart-failure. Dr. Suckling, Professor of Medicine at Mason College and specialist in nervous diseases, said he considered the mind of Mrs. Wilkinson was affected. The Bench intimated their intention to deal with Valter summarily, and to dismiss the charge against Wilkinson on the ground of insufficient evidence. The police then proceeded against both defendants, on a further charge of stealing a number of articles from the shop of Mr. Hutton, chemist. The Magistrates sentenced Valter to two months' hard labour, and Wilkinson was fined 20*l.* in consequence of her obvious ill-health.

### Blackpool Chemists Dine Together.

A dozen of the chemists of Blackpool dined together at the house of Mr. J. Sedgwick one day last week. Mr. J. Laurie, the local secretary of the Pharmaceutical Society, occupied the chair, and there were also present Messrs. H. P. Withers, J. Sedgwick, W. C. Richardson, J. Sankey, C. H. Turver, J. Johnson, A. Henderson, J. Jackson, T. Carter, A. C. Taylor, and Wilkinson. The Queen, the Pharmaceutical Society, and the Corporation of Blackpool were toasted in turn in the flowing bowl, and several of the company contributed music and recitation. Mrs. Sedgwick and Mrs. Laurie co-operated in the superintendence of the dinner-arrangements, and we hope they were also thanked, though it is not on record that they were.

### Serious Fire at York.

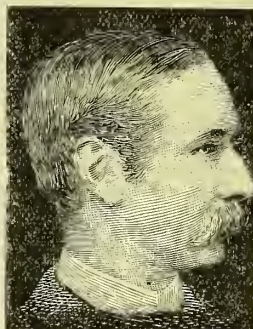
Last Friday (March 1) a fire broke out in the warehouses at the back of the shop of Messrs. Dresser & Folkard, wholesale and retail chemists and druggists, Pavement, York. A man had accidentally dropped a 6-gallon jug of sweet spirit of nitre, which, overspreading a small office, became ignited by contact with a low stove. The flames spread with terrible rapidity, and the utmost consternation was caused by the threatened destruction of adjoining shops and business premises, the occupants of which speedily removed their goods to places of safety. Fire-engines were brought into requisition, and the fire was subdued before spreading beyond the premises of Messrs. Simpson, tailors, next door to Dresser & Folkard's. The damage to the property and the stock of both firms is considerable, amounting to several thousands of pounds.

### Chemical Society.

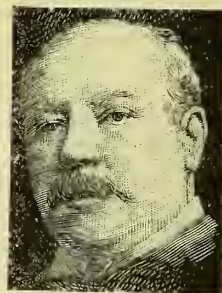
Dr. A. G. Vernon Harcourt, F.R.S., has been selected to succeed Professor H. E. Armstrong as President of the Society, while Professors Roberts-Austen and Japp will be Vice-Presidents; and as members of Council Professor Bedson, Mr. Bennet Brongh, Mr. Otto Hehner, and Professor McLeod have been selected.

### The London County Council Election.

The pharmaceutical element on the new London County Council remains much as it was on the old. The best-known representatives of pharmacy are all old members. Mr. William Pearce, F.C.S., of the chemical-works, Bow Common, retains his seat as senior Progressive member for Limehouse. Mr. Pearce, who is 41, is a Londoner by birth, and was educated at the Royal School of Mines. Mr. Pearce is a J.P. for the county of London, and is now the senior partner in his firm, which was established by his father in 1838. Mr. W. Urquhart, a varnish-manufacturer, is again returned as a Moderate member for North Paddington, and Mr. John McDougall, F.C.S., formerly a member of a well-known chemical firm at Millwall, retains his seat as a Progressive for Poplar. Mr. McDougall, who



W. PEARCE, L.C.C. (from a photograph by G. & R. Lavis, Eastbourne).

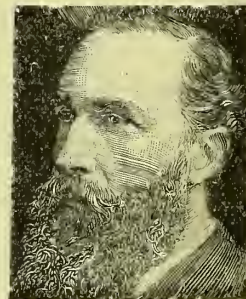


MAJOR CLIFFORD PROBYN, L.C.C. (from a photograph by Bassano).

is 51, is one of the best-known members of the Council. Major Clifford Probyn, one of the Moderate members for the Strand, has been on the Council since its creation in 1885. He is the proprietor of Wm. Hooper & Co., the well-known chemists and aerated-water manufacturers, of Pall Mall East. Major Probyn was formerly a member of the London School Board, and has also been connected with the Vestry of St. George's, Hanover Square. He is 55 years of age. Mr. T. Howell Williams Idris (Progressive) has again been returned



J. McDOUGALL, L.C.C.



T. H. W. IDRIS, L.C.C.

for North St. Pancras. He is 53 years of age, and the founder and head of the mineral-water firm of Idris & Co. (Limited). Mr. Idris was formerly in business as a chemist, and is an F.C.S. Mr. Charles Goddard Clarke, J.P., of the firm of Potter & Clarke, wholesale druggists, of Raven Row, E., stood as a Progressive for Brixton, where he received 2,196 votes against 3,149 and 3,075 given respectively to the two Moderate candidates who were elected. Mr. Harry J. Powell, B.A., a partner in Powell's Glassworks, Whitefriars, E.C., and the author of the articles on pottery and glass in Spion's "Encyclopædia," and various other technological essays, did not offer himself for re-election. He sat on the last Council for Dulwich as a Moderate. Quite a number of medical men were among the candidates, and six of these are elected. They are:—Dr. George Joseph Cooper, M.R.C.S. (Progressive), who came in at the head of the poll in Bermondsey; Dr. R. Gooding, who gained a seat for the Moderate party in Greenwich; Mr. Elijah Baxter Ferman



M.R.C.S. Lond., and M.D. Brussels (Moderate), who kept the seat he held on the old Council for North Hackney; Dr. T. B. Napier (Progressive), who retains his seat for North Islington; Dr. G. B. Longstaff, a Moderate member for Wandsworth, who holds a medical degree, and is a well-known writer on medical statistics and sanitation, although he has never practised his profession; and Dr. W. J. Collins (Progressive, West St. Pancras), an oculist, and surgeon to the London Temperance Hospital. Two medical men failed to secure election—viz., Mr. T. H. Clarke, a surgeon, who had a try for a seat at Poplar as a Moderate, and Dr. R. Ambrose, a Nationalist M.P., who stood as an Independent Progressive for Whitechapel. Mr. A. Sieveking (Moderate) a son of Sir Edward Sieveking, was defeated in Haggerston,

#### Chemists on County Councils.

Among the members of County Councils outside London whose returns have been reported during the past week, we notice the following chemists:—Mr. H. D. Simpson, Louth, and Mr. Fletcher, Scunthorpe, on Lindsey County Council; Mr. J. Horsley, Hartlepool, on Durham County Council; Mr. J. E. Riley, manufacturing chemist, Accrington, on Lancashire County Council; Mr. Benjamin Crowther, manufacturing chemist, Birkenshaw, on West Riding County Council; Mr. Henry Peake, J.P., chemist, Dover, has been elected unopposed for another term of office as a member of the Kent County Council.

#### Theft of Lung- tonic.

Alexander Richardson was charged on remand at the Mansion House last week with stealing two boxes of lung- tonic from the premises of Messrs. F. Newbery & Sons, King Edward Street, E.C. As defendant had been in custody for two weeks he was discharged with a caution.

#### Carbolic-acid Poisonings.

Mr. Braxton Hicks held an inquest at Lambeth, on Saturday, regarding the death of Susan Anderson, aged 57, who had committed suicide by taking carbolic acid. The evidence showed that in 1893 she had an attack of influenza, since which she had been very depressed. Last week she had stated that she feared she was going to have another attack of influenza, and the Coroner remarked that her mind had evidently become unhinged by the fear of another attack.

A woman named Jane Owens, aged 57 years, who resided at 28 Neston Street, Walton, near Liverpool, was found lying on her bed, on Friday last week, whilst close by on a chair was a bottle labelled "Carbolic acid," together with a glass which also contained some of the liquid. The woman died shortly after the discovery. She had previously threatened to take her life.

The Liverpool City Coroner held an inquest on Friday last week touching the death of Henry Bowland (49), Corporation labourer, of 100 Latimer Street, who poisoned himself with carbolic acid on the previous Wednesday. Verdict, suicide during temporary insanity.

At the inquest, held at Birkenhead, on the body of Richard Whalley, who died, as reported in our last issue, of carbolic poisoning, the Coroner, addressing the jury, said that carbolic was one of the unprotected poisons. There were more deaths arising from taking carbolic acid than from taking any other poison known, and that was simply because a child might go into a shop and get a 6d. or 1s. bottle, and the druggist had no right to ask questions. If a dose of arsenic or laudanum was wanted, a second person must be present at the purchase, but there were no restrictions on the sale of carbolic acid, one of the deadliest poisons known. In regard to the present case, no cause had been shown why this young man, in the prime of life, had committed suicide. The jury returned a verdict of suicide while in a state of temporary insanity.

#### An Unqualified Assistant's Mistake: Disagreement of the Jury.

The inquest on the body of Henry Whittingham, 40 years, master clogger, Sandy Lane, Skelmersdale, who died, as

reported in our last issue, after taking an ounce of tincture of opium, supplied, instead of a black-draught, by mistake of Arthur Holt, aged 18 years, employed by his mother, trading as the County Drug Company, Skelmersdale, was resumed on Monday last. Dr. Morris, supplementing his former evidence, said he had made a *post-mortem* examination, and found the appearance of the body consistent with his former opinion—that death was entirely due to opium-poisoning. Charles James Henshaw, the qualified manager of the shop, added that he had had eleven years' experience, and had been in seven shops. It was quite a usual practice to keep the laudanum-bottle next to harmless substances. The bottles were generally arranged alphabetically, but in this shop there seemed to be no special scheme.

Arthur Holt, recalled said that they had had, since the death of his brother nearly two years since, a qualified chemist. The laudanum-bottle occupied a position on the shelf between the black-draught and the liquid ammonia. It was hardly possible for the ammonia to get out of place, as it stood next to a partition, but if the black draught and the laudanum were taken off the shelf at the same time they might get reversed. He could remember the black-draught thus changing positions with the laudanum, and he had served black-draught from the position belonging to the laudanum. He had taxed his memory about the mistake mentioned by Police-Inspector Waddilove on the former occasion. It was tincture of iodine which he sold, because he thought that was what she asked for. The Coroner said the only question for the jury was to ascertain the degree of negligence on the part of Arthur Holt. Negligence there certainly was, or the fatal mistake would not have happened; but the jury must say whether the negligence was so great as to be censurable, or so much greater as to be culpable, in which latter case Arthur Holt must go for trial on a charge of manslaughter. Among the facts elicited was the one that the laudanum-bottle had previously changed places with the black-draught bottle, which might account, in some measure, for the mistake. The jury must consider this and the other facts carefully in considering whether they would be doing their duty by sending Arthur Holt for trial.

The jury, after long deliberation, found they could not agree, and were bound over to appear at the next Liverpool Assizes to obtain the direction of one of the judges on the inquiry.

#### The Late Mr. S. M. Burroughs and Dartford.

At the meeting of the Dartford District Council, last week, the following resolution, moved by Mr. Dowsing, seconded by Mr. Hesketh, was carried unanimously:—

That the Council records its deep sense of the loss which has occurred to the town by the death of Mr. S. M. Burroughs, and expresses its sincere sympathy with Mrs. Burroughs, as also with Mr. Wellcome.

A proposal is on foot in Dartford to raise a local memorial to the late Mr. Burroughs. It is suggested that a fund should be raised to liquidate the debt on the Dartford Livingstone Cottage Hospital (which owes its existence chiefly to the efforts of the deceased gentleman), and that it be styled thereafter the "Burroughs-Livingstone Hospital, and that the men's ward be called by the name of the "Burroughs Ward."

#### Meat out of the Eater.

The Baylass Drug Company (Limited) has enjoyed a twelve months' career in Torquay. The stock was sold by auction last week. Several of the chemists in the town formed a combination of the best Jewry model, and bought all the drugs at a low rate. Mr. Holloway was the ostensible purchaser, but he represented the ring. The distribution is to take place next week, and is to be followed by a supper.

#### Select Committee on Weights and Measures.

The Select Committee of the House of Commons appointed to inquire into the existing systems of weights and measures in this country held their first meeting on Tuesday of last week, under the chairmanship of Sir Henry Roscoe.

Mr. H. J. Chaney, Superintendent of the Standards



Department of the Board of Trade, gave evidence first. After describing the system under which the experts of the Board of Trade verified the legal standards, he stated that the imperial and metric systems were the only ones with which the Department had to do in England, but there were other local customary weights and measures in use, and there were many in use which were not legally recognised. Among these he mentioned the carat, the boll (used in Scotland), the ell, the comb (used for measuring corn), the Winchester bushel, the butchers' stone of 8 lbs., the miners' dish (used for weighing ore in Derbyshire), and the gauge (used in measuring plates) as examples of weights and measures which were not recognised by law. A number of anomalies which formerly existed, such as a ton of stone being different from a ton of other materials, had disappeared to a great extent under the operation of the Weights and Measures Acts of 1878 and 1889. Practically the only two countries of any importance in Europe in which the metric system is not adopted are Great Britain and Russia. In Germany, Austria, France, Italy, Spain, and Portugal the metric system is the only system in use.

Continuing his evidence at the second sitting of the Committee on Tuesday last, Mr. Chaney stated that the Board of Trade were authorised to verify metric weights and measures for purposes of science and manufacture, but not for trade. A manufacturer might for the purposes of his manufacture use metric weights and measures, but, on the other hand, he was liable to the consequences of his act if he used them for the purposes of trade. The inspectors had power to interfere with any existing weights of illegal denomination.

Mr. Amos Dowson, C.E., Chairman of Committee of the New Decimal Association, was the next witness, and spoke to the educational aspect of the question. The scholars in our primary schools are being taught the principles of the metric system on the assumption, as he observed, that it would be adopted in this country. He gave some curious examples furnished by the Secretary of the Nottingham and Midland Merchant Traders' Association and others of discrepancies in existing local standards. In Cornwall, for instance, a bushel of potatoes is 224 lbs., and in Nottingham only 84 lbs., while the hundredweight of certain kinds of cheese is 112 lbs., and of others 120 lbs. These and other anomalies cause constant harassment and inconvenience to traders. The witness also gave it as his opinion that the adoption of the metric system would be an advantage to our foreign trade. Our merchants are placed at a disadvantage because foreign customers prefer to deal according to the metric system, with which they are familiar. He quoted letters from traders and merchants in various parts in support of his evidence, among them one from Messrs. Davy, Yates & Hicks, wholesale chemists, of Southwark, who stated that they used the metric weights and measures in execution of orders for exportation to the principal countries of Europe, South America, &c., their correspondents in such countries almost invariably requiring their goods to be packed and rated according to the metric system. They also added that a very large number of firms engaged in the export trade in all its branches were constantly called upon, as they were, to use the metric weights in trade, and, as the Act made it illegal to use such measures, very great injury and loss to the country would result therefrom. The Secretary of the Decimal Association had sent out a circular letter to several of the British Consuls in various parts of the world, and their replies showed them to be distinctly favourable to the decimal system. He had also obtained opinions from the Chambers of Commerce in the country, and the 72 associated Chambers of Commerce, as well as six not members of the Association, all strongly advocating the adoption of the metric system of weights and measures. They had adopted resolutions in favour of it. In reply to Colonel Hill, witness said he did not think the adoption of the system would place any formidable difficulties in the way of the poorer classes, as the principles of the system are now being taught to the school-children under the Educational Code.

The Committee adjourned.

The metric enthusiast on THE CHEMIST AND DRUGGIST staff was not quite satisfied with the questions put by Sir Henry Roscoe's Committee, which did not seem to reach the

heart of the matter. So he resolved himself into an extra Select Committee, and appointed himself a deputation to Mr. Chaney. That gentleman was discovered at the Standards Office of the Board of Trade, and the deputation put this question to him:

"Is there any really substantial reason why metric weights should not be tested, stamped, and allowed to be used in trade generally (not in export trade only) by those persons who may wish to buy and sell by the kilogramme and the litre?"

Mr. Chaney, who had been talking humanly enough until then, retired into his official shell as soon as this question was put. "I cannot answer that," he said; "it is a question of policy. But you can see what an opening for fraud it offers if two sets of weights are allowed to be in use side by side."

The deputation tried its best to see this point, and withdrew to meditate over it. After careful deliberation, the extra Select Committee came to the unanimous conclusion that there was no sufficient reason why the free use of metric weights and measures should not be permitted in this country to those who wish to use them, and that such permission would be the simplest and best way of giving the system a fair chance to establish itself.

#### A Chemist's Wife Dies Suddenly.

On Saturday last an inquest was held touching the death of Mrs. Reeve, the wife of Mr. John Reeve, chemist and druggist, of 14 Zion Place, Margate. The husband deposed that his wife had an attack of sickness and diarrhoea on the previous day, and he gave her a draught consisting of spirit of chloroform 10 drops, spirit of ammonia 20 drops, tincture of cardamoms 30 drops, and peppermint-water. He gave this as a stimulant, and to ease the internal pains from which she complained. As she did not get any better, he sent for Dr. Pittock, but death ensued before he arrived. Dr. Pittock, after *post-mortem* examination, gave it as his opinion that death was due to exhaustion and failure of the heart's action owing to the violent retching, and a verdict of death from natural causes was returned.

#### Disinfectants for the St. Luke's Vestry.

At an ordinary meeting of the St. Luke's (Middlesex) Vestry, held at the Hall in the City Road on Tuesday evening, the Public Health Committee reported upon tenders for the supply of disinfectants to the parish for a year. Mr. Tasker (Chairman of Committee) proposed that the tender be given to Messrs. Adcock, Easton & Co., Charteris Works, Finsbury Park, at the respective prices set out in their tender, and subject to satisfactory references. The prices were:—Commercial liquid carbolic acid per gallon, 1s. 1d.; carbolic powder per cwt. 4s. 1½d.; carbolic powder, per gross of 1-lb. packets, 9s. 6d. This was accepted on the seconding of Mr. George Eade. The other firms tendering included:—Mackey, Mackey & Co., 175 Grange Road, Bermondsey, S.E., whose respective prices were, 1s. 3d., 4s., and 12s. 6d.; The Killgerm Company (Limited), Cleckheaton, Yorkshire, 1s. 4d., 5s. 9d., and 16s.; The Sanitas Company (Limited), Letchford's Buildings, Bethnal Green, 1s. 6d., 3s. 9d., 8s.; J. M. Smith & Co., 38 Borough Road, S.E., 1s. 5d., 5s., and 10s.; Fletcher Brothers & Co., Grimsby, Lincolnshire, 1s. 4d., 4s. 6d., 18s.; Adams, Webster & Co. (Limited), Manor Chemical Works, Hackney, N.E., 1s. 3d., 4s. 3d., 7s. 6d.; Middleton Brothers, St. George's Street, E., 1s. 8d., 5s. 6d., 12s.; Whalley's Sanitary Fluid Company (Limited), 56 & 57 Aldermanbury, E.C., 1s. 4d., 5s. 6d., 11 8d.; Griffiths & Co., Campbell Road, Silvertown, E., 1s. 8d., 6s., 13s.; Lawes' Chemical Manure Company (Limited), 59 Mark Lane, E.C., 1s. 4d., 5s. 6d., 11 8d.; Mayor & Co., Love Lane, Southwark, S.E., 1s. 5½d., 4s. 3d., 9s. 6d.; Forbes, Abbott & Lennard, Ordnance Wharf, East Greenwich, S.E., 1s. 2d., 5s. 4½d., 10s. 6d.

#### Drugging Horses in Lincolnshire.

At the Horncastle Petty Sessions, on March 2, Walter Spikings, of New York, in the parish of Coningsby, was summoned for administering poisonous drugs to three horses, the property of Messrs. Sinclair & Son, seed merchants, &c. The defendant, who pleaded guilty to giving the horses a teaspoonful of black copperas twice a week, was fined



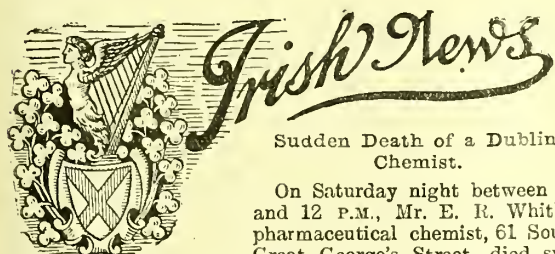
1*l.* 10*s.*, and 1*l.* 11*s.* costs, and in default of payment, one month's imprisonment, without hard labour.

#### Stopping Cutting.

At the Reading Grocers' Association meeting, held on Tuesday, a letter was read from Liebig's Extract of Meat Company, in reply to a letter from the Secretary, complaining of the cutting in prices of Liebig's extract of meat by Messrs. Jno. Cross & Co., people's chemists, Oxford Road, Reading. In the first letter, dated June 30, the company stated that on receipt of the Secretary's letter they had sent a representative to Reading to investigate the matter. To him Messrs. Cross & Co. stated that the reason they cut was because May's Drug-stores (Limited) did the same, and the representative understood that if Messrs. May would agree to the schedule prices Messrs. Cross would do the same. Messrs. May's manager expressed his willingness to sign the company's agreement, but Messrs. Cross, it was stated, then refused, saying that as others had started the cutting they would keep their price to 1*s.* 1½*d.* for 2 oz. The company therefore asked the Association to assist them to discover from whom these firms draw their supply. It was decided to try to ascertain this.

#### A Pharmacy School Entertainment.

A large gathering of chemists and their friends met at the Manchester College of Pharmacy on Tuesday evening at the invitation of Mr. Charles Turner. The guests numbered more than one hundred, and there was an abundant provision of scientific entertainment. About a score of microscopes with a large number of specimens were shown, some by the students and others by members of the Manchester Microscopical Society. In the laboratories the preparation of various pharmaceutical products was shown, while in the smaller rooms some "scientific mysteries" puzzled the uninitiated, and Mr. Leo Grindon exhibited his well-known and beautiful botanical specimens. Mr. Scott was in charge of electrical apparatus, and by means of a Wimshurst's machine, Geissler's tubes, the electrolysis of water, &c., kept his visitors interested. In the lecture-room Mr. Charles Turner delivered a lecture to a crowded audience on "Cryptogamic Plants," illustrating it with lantern-slides on an 8-foot disc, algæ, fungi, mosses, ferns, equisetæ, and selaginellas being specially noticed. The entertainment as a whole was highly appreciated.



#### Sudden Death of a Dublin Chemist.

On Saturday night between 11 and 12 P.M., Mr. E. R. Whitby, pharmaceutical chemist, 61 South Great George's Street, died suddenly while walking from his shop to his private residence Leison Park. In Chelmsford Road he was taken suddenly ill. He was conveyed to the house of Mr. Doherty close by and medical aid was at once summoned, but he expired in a short time. Heart-disease appears to have been the cause.

#### Business Change.

Mr. W. J. Meredith, L.P.S.I., has purchased the fittings and fixtures of Mr. J. G. Marshall's shop at Ripley, Derbyshire, and has transferred them to Tandragee, county Armagh, Ireland, where he is fitting up a new medical hall.

#### A Profitable Opening.

The following appears in the "Wanted" column of the *Irish Times*:—"Vacancy for a qualified doctor to prescribe for and supply medicines to the members of a friendly benefit society. Terms, 1*s.* per quarter for each member."

#### Fire.

Early on Monday last a fire broke out on the premises of Messrs. W. H. Bell & Co., pharmaceutical chemists, North

Street, Belfast. The fire was confined to the store and back retail department, but considerable damage was done by water.

#### The Glass-bottle Industry.

At a recent meeting of Dublin merchants it was stated that the continental competition in regard to medicine-bottles had contributed largely to the stagnation of the glass-trade, and that it would take 10,000*l.* to equip a bottle-manufactory in Dublin.

#### Liberal.

At the weekly meeting of the Lurgan Poor Law Board, Dr. Agnew's motion to have Mr. Joseph Calvert, pharmaceutical chemist, appointed to dispense medicines at the dispensary until the sickness in the district had abated was lost, and a subsequent resolution carried allowing the doctor to employ Mr. Calvert at his own expense.

#### Cork Wines.

At a meeting of the Cork Corporation, the city analyst, Mr. D. J. Omahony, F.C.S., reported having analysed seventy samples during the past three months, amongst them being "manufactured wines," which gave no evidence of cochineal, indigo or aniline colours; there was no salicylic acid present, and the colouring matters were of vegetable origin.

#### An Irish Bethesda.

At Claudy, county Derry, a spring in the stream below Kilgart, is much frequented owing to its alleged power to cure all kinds of diseases. Tradition has it that numerous cases have occurred in which cripples have been made whole by bathing in the waters. The recipe is to hang a present on a neighbouring bush, repeat a quaint rite and plunge in.

#### Malicious Poisoning of Cattle.

Last week at Ennis, the County Clare Grand Jury had before them the claim of Colonel O'Callaghan, for compensation for the alleged wilful poisoning of a large number of his cattle. Dr. Tichborne, chemist, proved the administration of a quantity of soluble arsenic, a portion of which he extracted from the viscera, and disproved the supposition that the cattle had been accidentally poisoned by eating hemlock, which grew as a weed on the Bodyke estate. Mr. Moss, of the Royal Dublin Society, ascribed the presence of arsenic to brass and iron nails found in the stomachs of the poisoned animals. The jury awarded 210*l.* compensation.

#### Chemists' and Druggists' Society of Ireland.

At a committee meeting of this Society held on March 1, Sir James Haslett, J.P., in the chair, it was decided to hold the annual social meeting on Friday, March 29, and the following gentlemen were appointed to carry out the arrangements:—Sir James Haslett, Messrs. R. Campbell, W. J. Gibson, S. M. Reid, J. D. Carse, S. Gibson, James Richardson, S. R. Hogg, and W. J. Rankin, convener. Mr. Samuel Gibson, chemist and druggist, Belfast, has been nominated as a representative of the Wholesale Merchants' Association, for election to the board of the Belfast Chamber of Commerce. The Chemists' and Druggists' Society are anxious to be represented on the same board, and would probably nominate Sir James Haslett.

#### Drug-contracts.

Tenders for drugs, medicines, surgical and medical appliances are invited by the following Poor Law Boards, on or before the dates mentioned:—Athy Infirmary and six dispensaries, March 26; Bailieboro Union, March 11; Bantry Workhouse and six dispensaries, March 12; Balinglass Union and outlying districts, March 16; Ballycastle, March 9; Borrisokane Workhouse and dispensaries, March 11; Delvin, March 22; Dunshaughlin, March 12; Granard, March 25; Rathdrum and dispensaries, March 8; Roserca and dispensaries, March 21; Tulla and three dispensaries, March 12; the Committee of Jervis Street Hospital, Dublin, for drugs, April 1. The contracts are tenable for twelve months, and will be made subject to the usual conditions, such as free returns of empties, security for the due fulfilment of the contract, and in the case of the Granard Union the tenders must not quote fractions of less than a farthing.



## Personal.

Professor Quinlan and Dr. Whittla, L.A.H., have been appointed examiners in *Materia Medica* to the Royal University, Dublin, for 1895. Sir Charles Cameron, city chemist, Dublin, has been elected to the chair of Sanitary Science. Dr. Hartog, D.Sc., Cork, has been appointed examiner in Natural Science.

Dr. Corry, of the firm of Corry & Co., chemists, Belfast, has been nominated to the Poor Law Guardianship of the Cromac Ward.

Sir James Haslett, chemist, Belfast, has been appointed honorary treasurer of the relief fund for the poor of the city.

Mr. William Hayes, pharmaceutical chemist, 12 Grafton Street, has been nominated to the office of Poor Law Guardian of the Clondalken division of the South Dublin Union.

Dr. R. J. Blackham, L.P.S.I., formerly of Messrs. Graham's and Wells's pharmaceutical establishments, Dublin, has taken third place out of twelve vacancies in the United Kingdom for Lieutenant-Surgeon in Her Majesty's Army Medical Service.



## Scotch News

### Glasgow Pharmaceutical Supper.

The members of the Glasgow and West of Scotland Pharmaceutical Association had their annual supper at the Alexandra

Hotel on the evening of February 28. Mr. W. L. Currie, President of the Association, occupied the chair, and among the company were Dr. D. C. McVail, Dr. A. M. Robertson, Mr. Charles Kerr (Dundee), and Mr. Rutherford Hill (Edinburgh). The croupiers were Mr. John Foster, Vice-President, and Mr. Alex. Laing, Hon. Secretary. After supper, the Chairman proposed the toast of "The Queen and Royal Family," and Mr. Laing that of "The Army, Navy, and Reserve Forces." "The Medical Profession" was given by Mr. Rutherford Hill, Dr. McVail replying. Dr. A. M. Robertson gave "The Pharmaceutical Society," to which Mr. Kerr replied. The toast of "The Glasgow and West of Scotland Pharmaceutical Association" was given from the chair, the company joining in singing, "Weel may the boatie row." The other toasts were: "The Strangers," proposed by Mr. Moir, coupled with the name of Mr. Cairncross; "The Croupiers," by Mr. A. Mackellar; and "The Chairman," proposed by Mr. John McMillan. A first-class programme of music, instrumental and vocal, and readings was sustained with great ability by Messrs. Cunningham, James Bruce, D. Stephen, A. Mackellar, A. Laing, W. L. Currie, and Leiper; while an interesting and clever ventriloquial *séance* was given by Mr. Cairncross.

### Failure of Chemical-manufacturers.

The sequestration is announced of Wm. Boyd & Co., chemical manufacturers, Fife Chemical-works, Thornton, and Wm. Boyd and John Semple Mackintosh, chemical-manufacturers there, the individual partners of the firm.

### Medical Stores Wound-up.

The following announcement is made in the *Edinburgh Gazette* of March 5:—At a meeting of the members of the Medical Stores (Limited), duly convened and held at the registered office, 166 St. Vincent Street, Glasgow, on February 2, 1895, the following special resolutions were duly passed, and at a subsequent extraordinary general meeting of the members of the said company, duly convened and held at 166 St. Vincent Street, Glasgow, on March 2, 1895, the said special resolutions were duly confirmed: (1) "That this company be wound up voluntarily"; and (2) "that Thos. Guthrie, C.A., Glasgow, be, and is hereby, appointed liquidator, to conduct the winding-up; George D. Anderson, chairman."

## Business Changes.

Mr. James Anderson, chemist, Dundee, has lately moved into the shop at the corner of Commercial Street, which he purchased last year, and has fitted the interior in an excellent way, especially for facilitating the dispensing. Mr. Anderson is a keen cutter.

Mr. Jeremy Blenkiron, formerly assistant to Mr. J. C. Pottage, 117 Princes Street, Edinburgh, has purchased the business carried on hitherto by Mr. Sydney Keith, chemist and druggist, 69 South Clerk Street, Edinburgh, and entered into possession on Monday, March 4.

Mr. Alexander Teal, for many years assistant to Messrs. J. F. Macfarlan & Co. in their manufacturing department, has taken over the business carried on by the late Mr. James Binnie, chemist and druggist, 281 High Street, Edinburgh.

The large shop, No. 1 South Clerk Street, Edinburgh, at present occupied as a branch of the Commercial Bank of Scotland, is to be opened as a drug-store in May next by Messrs. Inman & Co.

### Glasgow Parish Medicines.

At the monthly meeting of the Glasgow City Parochial Board, held on March 7, a return was submitted showing that during the past month there had been 7,100 prescriptions made up in the Parliamentary Road dispensary for indoor poor, and 817 for outdoor poor; and also that the outdoor poor in the parish had 300 prescriptions made up in the following private dispensaries:—Glasgow Apothecaries' Company, 10; Messrs. J. & R. Rodman, 113; and Mr. D. P. Walker, 177. It was also reported to the Board that the Medical Committee had purchased the following articles for the use of the dispensary:—100 lbs. best grey cotton-wool, from Mr. James Taylor, at 6d. per lb. net; 150 lbs. gamgee tissue, from Messrs. Cockburn & Co., at 1s. 2d. per lb., less 2½ per cent.; 10 gallons best olive oil, from Messrs. Brown Brothers & Co., at 4s. per gallon, less 5 per cent.; and 160 lbs. best castor oil, from Mr. James Taylor, at 3½d. per lb. net. The Board approved of the action of the committee.

## French News.

**DUELLING AND ANTISEPTICS.**—The duelling question still agitates the public mind. With regard to the death of M. H. Percher, it may be of some interest to mention that the swords used in duelling are always dipped into an antiseptic solution before the combat. Carbolic-acid solution was used in the fight which cost M. Percher his life.

**THE CHARGE AGAINST A MAYOR-PHARMACIEN.**—Judgment has been delivered against the ex-Mayor of Gien, M. Merry, in the case referred to in *THE CHEMIST AND DRUGGIST* of last week. In summing up, the Judge showed that the defendant had abused his position as Mayor, and condemned him to four months' imprisonment and a fine of 500f. The Paris wholesale druggists, MM. Serre and Cruet, who were implicated in the case, but had apparently derived no pecuniary profit from their arrangement with the ex-Mayor, were fined 100f. each, but they escaped the actual payment under the Béringer (first offenders) Act.

**PARIS STUDENTS.**—The total number of students attached to the various schools and faculties of this city last year was 12,325, against 11,914 for 1892-93. At the School of Pharmacy there were 1,716, of whom 24 were foreigners; while the Faculty of Medicine had 5,144, 195 being ladies. Pharmacy failed to attract any students of the fair sex. The School of Pharmacy awarded 17 scholarships, and examined 1,951 pupils. The School of Medicine shows a much larger proportion, though at the latter only 457 students obtained their doctor's degree; 12 of these were ladies. The Council of the Faculties recommends to the University of Public instruction that a certain number of new professorships should be founded, and first on the list figures that of analytical chemistry at the School of Pharmacy.

**THE GENERAL COUNCIL OF THE FACULTIES.**—At a meeting of the Council, held last Monday morning at the Sorbonne, the President (M. Gréard) thanked M. Lanne-



longue (a Deputy and a member of the Council) for having obtained from Parliament the credit necessary for founding a professorship of analytical chemistry at the Paris School of Pharmacy. M. Gréard mentioned that this project has been before the Council for the past ten years. The Rector also read a petition signed by the students of the Faculties and the School of Pharmacy, asking that, as a means of establishing their identity, a photograph of the holder should be affixed to the College card. The Council accepted the suggestion, which will prevent unscrupulous youths from obtaining certain little advantages, such as admission at reduced prices at some of the theatres, which Paris students enjoy.

**ANOTHER REMEDY FOR COLD IN THE HEAD.**—Inhalations of eau de Cologne are one of the most recent remedies for a cold in the head, and, in attributing the effect to the anti-septic essences contained in the German odour, Dr. Maurel, of Toulouse, concludes that the inflammation of the higher respiratory organs is due to some form of microbe. His experiments on the subject have led him to discover that the microbic element issuing with the mucus from the nose cannot be cultivated in an element of iodoform vapour. On account of the unpleasant odour of this anti-septic, however, he has experienced some difficulty in arriving at a practical form of treatment. The most expeditious way, he finds, is to insert a tiny piece of iodoform gauze in the nose on going to rest. He also prescribes iodoform in the shape of lozenges, to be given in doses not exceeding 3 centigrammes per twenty-four hours.

**POISONED CAKES.**—The pharmacist Roy, who has just been condemned to fifteen years' imprisonment at the Aube Assizes for poisoning a woman by means of chocolates containing strychnine sent through the post, has already found an emulator. Three sorters of the Tarbes Post Office were engaged one night last week in making up the mail when their attention was attracted by a parcel containing eatables. The packet was opened, and was found to contain a few cakes, one of which the postmen ate. One only of them ate enough to bring on symptoms of strychnine-poisoning, to which he succumbed. M. Fortuné Cabraró, of Cieutat, Bagnères de Bigorre, to whom they were addressed, drew suspicion upon a school-teacher named Contre, of the same town. The latter has since confessed the crime, which is due to political vengeance. He states that he wanted to produce a purge, but a pharmacist at Lannemezan gave him strychnine for nitre.

**PARIS CHEMISTS' ASSISTANTS.**—The Association of Chemists' Assistants of Paris continues its campaign in favour of improving the status of its members, and with this view a meeting was held a week ago at a café on the Boulevard de Sébastopol. Their programme remains practically unchanged, and comprises a reduction in the hours of work, one whole day of rest a week, and facilities for residing outside the pharmacy. The Association has issued the following appeal to colleagues who are non-members:—"Before continuing the campaign commenced three years ago, and which has given such good results, we again appeal to your sentiments of brotherhood not to remain isolated, but to attach yourself to our syndicate. Your interests are with us, and you should, therefore, not hesitate to join our ranks. Shake off the apathy and indifference which have so long been leading characteristics of our profession. You will find in us comrades who will help you in case of need," &c.

**IMITATION "SERUMS."**—At a Council of the French Ministry, held on Sunday afternoon, March 4, M. Georges Leygues, Minister of the Interior, referred to the numerous complaints which have reached him relative to the dangerous traffic carried on by certain quacks since the discovery of the anti-diphtheric serum. It appears that these persons trade on the credulity of the public by selling at low prices, as authentic serum, liquids in no way resembling the product used by Dr. Roux for curing diphtheria, thereby causing much misery to poor people. The Council approved the text of a short Bill tending to regulate "the preparation, sale, and distribution of therapeutic, anti-diphtheric, or other serums, to suppress the sale and distribution of all imitation or adulterated substances, and to penalise misrepresentation concerning the quantity and quality of the product sold." The subject was to have been discussed in the Chamber of

Deputies on Monday, but it was crowded out by more pressing matters. It would seem, however, that the Minister of the Interior is going to a good deal of unnecessary trouble, for, since February 10, the sale of anti-diphtheric serum in France has been restricted to pharmacists.

## Foreign and Colonial News.

**THE AMERICAN PHARMACEUTICAL ASSOCIATION** is to meet at Denver on August 14, not on June 19, as was previously determined.

**MINING-SCIENCE AT THE CAPE.**—It is proposed to found a School of Mines in connection with the South African College, and the University Council at Cape Town are considering the measures for conducting examinations and issuing certificates, diplomas, and degrees in mining.

**UNITED STATES COCAINE DUTY.**—Judge Cox, of the United States Circuit Court, has decided that cocaine hydrochlorate is not a medicinal preparation, but a chemical salt. In trade parlance it is both, but the United States Customs only get 50c. per lb. under the former heading, and 25 per cent. *ad val.* under the latter; hence the decision.

**OSTRICH PEPSIN.**—The *Apotheker Zeitung* reports that pepsin has been offered in Germany under the name of "Strauss pepsin" (ostrich pepsin), which comes from Buenos Ayres, and is said to be made from the crops of the *Rhea americana*. Apart from the fact that the existence in Argentina of a sufficiency of the birds to give a commercial yield of pepsin, our contemporary points out that the product in question has been examined and found to be practically valueless as a digestive agent, and it treats the whole thing as a hoax.

**DISTRESS IN THE SICILIAN SULPHUR-MINES.**—The situation in the sulphur-mine districts of Sicily is giving rise to serious anxiety, the prevailing depression of trade and the low prices ruling causing great loss to mine-owners and much distress among their employés. A meeting of owners has been held to discuss the question of establishing general sulphur warehouses and of forming a syndicate of all the producers of sulphur in the island. The industry gives employment to 33,000 workmen, and it is thought that the only means of saving these wage earners from dismissal and ensuring the continuance of work is to establish a sulphur-monopoly by the proposed syndicate. Another meeting of mine-owners will be held next month, when the proposal will probably be agreed to.

**AUSTRALIAN BEE-FARMING.**—The extreme suitability of climate and flora for bee-farming purposes in New South Wales is leading to a steady annual increase of honey-production in that colony. Several of the largest bee-farms are in the Blue Mountains and Western districts. The red gums are the main dependence of the bee-keeper, though the box-tree, which is also very common, gives a fair supply of honey. Recently increased attention has been given to the best methods of honey-production, the bee-farmers in New South Wales being sufficiently numerous to support a monthly paper, the *Australian Bee Bulletin*, and to hold occasional conferences for the purpose of discussing matters affecting the bee-farming industry.

**CHEATING IN COD-LIVER OIL IN THE U.S.**—It is asserted in New York that the present season's "boom" in cod-liver oil has brought to light a feature in the oil-trade previously unknown to exist in that city, or which, at any rate, was practised very rarely. This is the trade in empty oil-barrels which have contained prime Norwegian oil of well-known brands, and are duly branded, and then refilling with inferior or Newfoundland oil, and selling them under the original brand. Within a few days over 400 empty barrels of the best known Norwegian brands have been bought, a higher price having been paid for one particular brand than for any others, a circumstance due to the fact that the first-named has been in better inquiry the past season, and is to-day commanding a higher price than some other prime brands. In this connection it is perhaps significant that Newfoundland oil is offering from Newfoundland at 50c. per gallon.



## Pharmaceutical Society of Great Britain.

### COUNCIL MEETING.

THE business of the Council on Wednesday was of such a routine character that it scarcely requires to be dealt with in the ordinary reportorial fashion. At first the table looked thin, and seemed to reflect the ravages of the P.E. (which is short for the prevailing epidemic), but gradually the chairs were filled, until seven only remained vacant. Mr. Carteighe was in the chair, and there were also present Mr. Cross, the Vice-Chairman, and Messrs. Allen, Atkins, Gostling, Grose, Harrison, Hills, Martin, Martindale, Newsholme, Southall, Warren, and Rymer Young.

After the minutes the President read a letter from Mrs. S. M. Burroughs acknowledging the Council's sympathy with her bereavement, and from that the members went to the election of A.B.'s (associates in business), M.P.S.'s, &c., finally coming to finance, where

### AN UNCOMMONLY SMALL BALANCE

met their view. It was 18*l.* 5*s.* 11*d.*, and the monthly accounts to be met amounted to 2,371*l.* 9*s.* 6*d.*; but, as the President remarked afterwards, the subscriptions will be coming in now, so the committee ventured to draw a cheque upon the future. The chief items in the accounts payable were 742*l.* for the *Journal* and 1,000*l.* to clear up the charges of the examination-hall in Edinburgh, the latter including architects' fees, electric light, fittings, and apparatus, which were not reckoned in the original estimates—all legitimate expenditure, the President said, and though it was a little difficult to come at the true cost of such a job, they must allow for improved ideas in such things—with which sentiment the Council smilingly acquiesced.

### BENEVOLENCE

showed well—viz., 280*l.* 5*s.* 3*d.* from subscriptions, 65*l.* 15*s.* from donations (in which was 50*l.* from Mr. Percy C. Probyn—"the Major"), and 26*s.* for the Orphan Fund. But there were no grants, two applications being refused and one deferred. The Library, &c., Committee showed nothing that does not come up every month, except that eternal phase of

### PROVINCIAL EDUCATION

—an appeal for help. Sheffield wanted 50*l.*, and got 25*l.* so that local effort might be stimulated to gather the other 25*l.* Inverness wanted something and got nothing, because it does nothing according to the regulations for such grants.

### THE ANNUAL MEETING

next fixed attention, but only to the extent of a remit to draft the report, and settling the date—Wednesday, May 22.

### WEIGHTS AND MEASURES

brightened things a little, Mr. Charles Umney having suggested that the Council should appear before the Select Committee now sitting. They will—in the person of the President and Mr. Martindale.

### THE UNCERTAINTY OF LIFE

is ever present before the Council. This month it was exemplified in the loss of two corresponding members—M. Andrew Ferrein, of Moscow; and M. Jean Edouard Bommer, professor of botany of the Brussels University. The Council next ordered the payment of the second moiety of the Bell Scholarship money, and having passed

through two restorations, came to a very good appointment (so said someone)—viz., that of Mr. William Gregory as Local Secretary for Weymouth. Then, by special resolution stamped with

### THE SEAL OF THE SOCIETY,

Mr. Bremridge was authorised to prove debts on behalf of the Society, which brought to the recollection of some of the councillors that the Society had figured as a creditor in a bankruptcy report last week. The operation of sealing those resolutions, which focus in Mr. Bremridge's personality the power of 5,000 individuals, destitute by charter of bodies and souls, is not a public function. The seal is kept in a quaint box, of which the President and Vice-President have keys, and they have to be gathered together to the solemn function of opening, whereupon the secrets of the box are revealed, a prosaic but substantially useful embossing-stamp appears, and the office-boy does the rest.

### THE THREE C'S

(we owe that phrase to Mr. John Harrison) will not upset Parliament this Session. The Law and Parliamentary Committee have considered whether they should go forward with a Pharmacy Bill, and they think not. The times are not propitious, the house unfit. So Mr. Carteighe explained. "But," said Mr. Harrison, "the committee should not abandon their draft. Go on with it; formulate what you want in the three C's—consolidation of the Society, curriculum, and companies—and we in the country will discuss it. Then you can revise it and be ready to put it before the House when the proper time comes." "Quite right," said Mr. Martin, which looked like Newcastle embracing Sunderland; "and in addition to educating the trade, if a general election comes along within a year we can educate candidates as to our needs. As a trade our ideas regarding the Bill are nebulous: let the committee perform an act of crystallisation." It seemed to Mr. Atkins that that was an "ation" easier than legislation, for he commenced an unvarnished *non possumus* advocacy with "sufficient unto the day is the action thereof," and concluded by advising the Council to wait till the crisis arrives. Mr. Southall was not sure about that. The provincial associations want something to do, and the three C's would be very good for them. Draft a Bill by all means. The President sat immovable, and when Mr. Southall sat down he, without rising, said, "The resolution is that the report of the committee do pass. Those who are of that opinion, signify the same in the usual way [and no one raised a little finger]; on the contrary" [not even a nail]. Whereupon the Bill, or rather the thought of it, was a record of the past.

### RESEARCH

was the last item of the day, but none except the initiated could extract the active principle of the President's announcement, which was simply to the effect that a special report of the Research Committee had been considered at the meeting the previous night, and as to publication the consideration was deferred. A copy of the pharmaceutical register of Cape Colony from Mr. Rendal, of Cape Town, was laid on the table. Our reporter left the Council Chamber on the understanding that law cases were to be discussed.

An itinerant pill-vendor was delivering a popular open-air lecture on his liver-pills, with the aid of a diagram illustrating the human frame. "That," he explained, pointing out a totally different spot, "is where man's liver is." "Excuse me," observed a spectacled man on the fringe of the crowd, "but I am a surgeon, and that's not where the liver is." Lecturer (indignantly): "Never you mind where his liver is; if it was in his big toe or his left ear my pills would reach it, and shake it for him."



## The Winter Session.

### SOCIETY OF CHEMICAL INDUSTRY.

At the meeting of the London Section, held in the Chemical Society's rooms, Burlington House, on Monday evening, Professor A. P. LAURIE read a note on

#### THE DURABILITY OF PIGMENTS DERIVED FROM THE COAL-TAR PRODUCTS.

The permanence or durability of these pigments, he said, is of increasing importance, but it does not lend itself to very exact measurement, and any question of the rate of fading of pigments is rather qualitative than quantitative. For the purpose of his experiments he had prepared such pigments as he had not been able to get hold of in the ordinary way, so as to know their composition. It is a difficult matter to identify a pigment and say from what coal-tar colour it derives its name. The method used in the experiments on water-colours carried on by Captain Abney, Professor Church, and others was to take a piece of Whatman's paper and paint a wash all over the paper and then to paint on a second and third wash, and so on, each time leaving a part untouched. That is the method the author used, with the difference that Professor Church had made ten washings, and he had made five, first grinding the colour with water into a stiff paste and diluting it with gum-water. The standard pigment used was crimson-lake (made from cochineal), and whenever he exposed any coal-tar pigment he exposed with it a little square cut off this standard colour. The results by this means were stated in comparison with the rate of fading of the crimson-lake. In the result the alizarine lake pigments proved very permanent indeed; the nitro-alizarine lakes were also fairly permanent, and did not fade very much; di-nitro-alizarine lakes (blue-lakes) were also very permanent. The next in order was the so-called alizarine yellow. This bright yellow at once turned orange colour on exposure, then it did not further change. The eosin colours seemed very uncertain, and of two geranium-lakes one of them faded very rapidly and the other proved very permanent. These were followed in result by erythrine, naphthalin-scarlet, crimson-lake and worst of all the mauve-lakes, methyl violets, and so on. Professor Laurie exhibited thirty to forty samples of the different lakes classified in the groups mentioned.

Mr. THOMAS ROYLE, in opening the discussion, objected to the method of experiment. He said the method he was acquainted with was to keep in books certain pieces of prepared paper or cloth, and to take out portions day by day or week by week so that each would show in successive degree the number of days or weeks of its exposure.

Another member said it was almost impossible to draw an inference regarding the character of a bright dye when used one way without knowing how it would behave when used in another, and that fact to some extent affected Professor Laurie's results.

Professor LAURIE, in reply, said that Mr. Royle had misunderstood him, and the results would correspond in both ways.

In the next paper, Sir Henry Roscoe and Mr. C. Lunt reported on an examination of the

#### HERMITE SYSTEM OF SEWAGE-TREATMENT.

Sir HENRY ROSCOE, who read the paper, said they had to distinguish between two kinds of electrical treatment of sewage, one of which was identified with the name of M. Hermite, and the other with the name of Mr. Webster. The Hermite system was a method of sewage-sterilisation, and the sewage itself was not treated. In the Webster process it was the sewage itself which was the subject of electrolysis. The investigation they had conducted was carried out at the offices of the British Institute of Preventive Medicine, and the experiments themselves were undertaken by Mr. Lunt, with plant set up at Worthing by Messrs. Peterson & Cooper, the representatives of M. Hermite in England. The method used was the electrolysis of natural or artificial sea-water, whereby a liquid containing free chlorine was produced. After describing the plant used, a number of tables were referred to, which showed the relative results

of the bacteriological experiments, with electrolysed solutions varying in strength from '25 gramme available chlorine per litre to 1 gramme per litre. M. Hermite has stated that faecal matter is destroyed when mixed with the electrolysed solution. In the experiments now reported on it was found that deodorisation occurred, and the liquid matter appeared to be sterile, while the solid faecal matter remained unaltered. This happened with a solution containing 1 gramme of chlorine per litre, even after a week's soaking. No amount of increase in the available chlorine, or in the volume of the liquid, sufficed to sterilise perfectly the solid matter. From the experiments, the authors concluded that electrolysed sea-water, as M. Hermite proposed, is useless. Moreover, it loses over 90 per cent. of its strength in twenty-four hours, and is then perfectly useless as a disinfectant. An electrolysed solution containing '75 gramme lost 34 per cent., and that of 1 gramme strength lost 10 per cent. in the same period of time. Under the Hermite system they were quite unable to sterilise a broth-culture of the *Bacillus communis*. On the other hand, the Hermite fluid of '25 gramme strength acted as an excellent deodoriser. A week's test with the public water-closets at Worthing showed that the fluid was practically sterile, but a large amount of solid faecal matter was suspended, and on this being broken up in the basket used in the experiment the effluent matter was foul, and contained a great amount of organic matter. There were reasons why this process might in some instances be employed, because it acts as an excellent deodorant; but as a method of sterilisation of sewage it is very doubtful whether it can be generally employed.

Dr. SQUIRE, who led off the discussion, said the value of a process was only brought out by comparison with other methods having the same object. He questioned whether it was better to introduce chlorine in the manner described or to add some bleaching-powder.

Mr. BEVAN asked if any comparative experiments with bleaching-powder and the electrolysed solution had been made.

Mr. FRANK SCUDDER intimated that Sir Henry Roscoe had made it perfectly clear that the Hermite process was not a process of purification. If it were so, it would have been well to have compared the effect of the process with bleaching-powder, but as it had been made so clear that it was not a purifying process he did not think this necessary.

Mr. COOPER (who intimated that he was M. Hermite's partner in England) said Sir Henry Roscoe had put before them the case of Worthing as applying the system to every house. M. Hermite said when you can do so, put it into every house, but if you cannot do that, put it into the drains or the sewer-head as soon as you can, and it will prevent the putrefaction of any matter in that sewer, and also prevent sewer-gas. You will have an effluent which can be very much more easily treated than if the process were not used. Sea-water is used by M. Hermite because it contains chlorides in sufficient quantity to pass an electrical current through it.

Sir HENRY ROSCOE, in reply, said he had not been able to make any comparative experiments, but he thought it was desirable that that should be done.

#### CHEMISTS' ASSISTANTS' ASSOCIATION.

At the meeting held on Thursday, February 28, Mr. R. H. Jones in the chair, the evening was devoted to short papers. Mr. SAGE was the first to contribute, his paper being a short note on

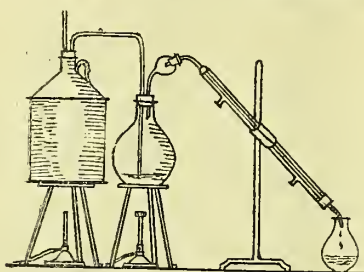
#### AN AVAILABLE METHOD FOR PREPARING SMALL QUANTITIES OF THE AROMATIC WATERS.

The apparatus required consists of (1) a  $\frac{1}{2}$ -gallon tin can (2) a 36 or 40 oz. flask, and (3) a condenser. The accompanying diagram shows the manner in which these are connected together. The can and flask are each fitted with corks pierced with two holes. The cork in the can is traversed by a long piece of tubing reaching to the bottom of the can and protruding about a foot above, to act as a safety-valve; from the other hole in the top of the can a piece of glass tubing bent twice at right angles passes to the bottom of the flask; by this means the steam is conveyed



from the tin to the flask, and, rising, it finds an outlet by passing into the condenser.

The can is filled three-parts full with water and heated to boiling; the drug to be used for preparing the water is



placed in the flask, the connecting glass tube thrust to the bottom, and the application of heat to the can continued. The steam soon saturates the drug and carries over all the volatile matter with it to the condenser. When steam has been passing for some time, the drug in the flask is transformed into a thin paste by the water which has condensed therein, and spurling and splashing begins if it is not remedied. The object of the globe tube in the top of the flask is to trap any of these splashes, and only allow the vapour to pass into the condenser. To prevent a large amount of liquid condensing in the flask, several means may be employed; either the flask may be surrounded with hot water, or a Bunsen with a rose burner may be placed underneath. Care, however, must be taken to turn the flame down low if the latter method is employed, or the drug will soon get scorched.

The flask may be substituted by a wide-mouthed jar or a metal tube, but a great improvement is made by placing a piece of gauze about an inch from the bottom, and placing the drug on the gauze; the steam then passes more evenly through it. Using a can of the size above mentioned, it is possible to distil about a pint of water an hour, but with a larger apparatus the yield is proportionately greater. When the required quantity has distilled over, it will be found that the drug is quite destitute of aromatic properties.

In many instances the waters produced by distilling a drug with water possess a peculiar odour, which to a great extent passes off in time. This is due to volatile organic matter, other than oil, contained in the drug, and its presence does not improve the keeping properties of the waters. This has led the author to substitute the essential oil instead of the drug in other instances besides that of peppermint, and he finds the products much more satisfactory, both as regards keeping properties and aroma. A much smaller flask in this case suffices.

Mr. Sage submitted three or four samples of water drawn by his process, and, in answer to questions raised, said that naturally waters were not so clear as those he then presented. These had been distilled during the extreme frosty weather, and were more than usually turbid, so had been filtered.

Mr. A. GUNN next read a contribution on

#### A USEFUL LABORATORY FILTER.

The filter has been in constant use in Messrs. Fletcher, Fletcher & Co's laboratories since June of last year. It was devised originally to minimise oxidation during the filtration of certain solutions, in which respect it has proved an unqualified success. Its usefulness has been further and perhaps more forcibly demonstrated in filtering some strong solutions of quinine in phosphoric acid, which went indifferently through flannel or twill and refused absolutely to go through paper. The arrangement (fig. 1) is in principle a syphon, and is therefore automatic. The filter itself is simply an alteration in the limb of the syphon adapted to hold the filtering-medium. Being automatic it is of course necessary that the receiver should be capable of holding the entire bulk of the liquid to be filtered, and proper precautions taken to prevent evaporation or oxidation according to the nature of the solution. To make it, procure a glass cylinder 12 inches long and  $1\frac{1}{2}$  inch in diameter. The exit-tube,  $\frac{1}{4}$  inch diameter, is connected to the cylinder by a good sound rubber bung. The supply-tube is similarly connected. This

tube is of wider bore than that of the exit—about  $\frac{3}{8}$  inch diameter—because in practice it is found that if both tubes are of the same bore the syphon will not be complete. The filtered solution must fill the exit. If it only runs down the

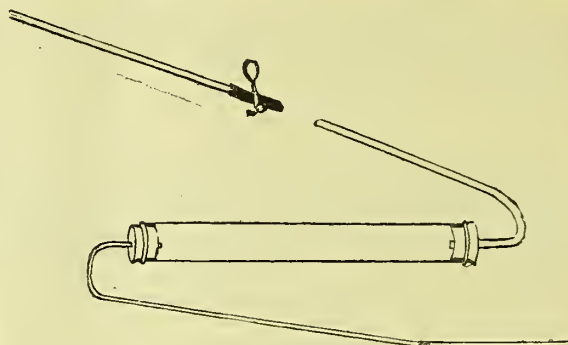
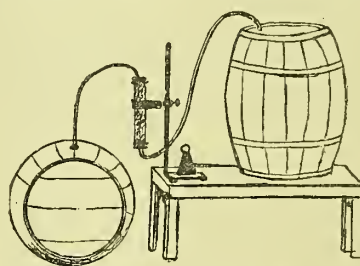


FIG. 1.

sides the filter is not nearly so powerful. To charge the filter, fix the exit-tube to the cylinder, then insert a few pieces of clean broken glass; next a wad of cotton-wool, not tightly packed, to make a layer about  $\frac{1}{4}$  inch deep; then a little glass-wool and another layer of cotton-wool like the first, glass wool again, and a little paper-pulp. Next eight or nine small clean glass stoppers (1-oz. vial size). This prevents over-compression of the various layers. Paper-pulp is added next to form a layer 1 inch deep, solid but not tightly packed, a little glass-wool over this, then another layer of paper-pulp like the last, and finally a little more glass-wool. The packing is neither elaborate nor troublesome. The following are some of the advantages of the filter:—Exposure to atmosphere is reduced to a minimum. Heavy sediments can be avoided by raising the supply-limb of the syphon and so preventing clogging. There is no disturbance of the filter on addition of more liquid. It is self feeding, and with suitable vessels requires no attention when once started. The filter may be filled with any suitable material, such as charcoal, kieselguhr, &c., and can be changed or cleaned when necessary. Filtration is upwards, which has much in its favour. But perhaps the greatest advantage is in the almost entire absence of waste: 26 or 27 gallons can be filtered during the night from one cask into another without a single drop to be seen anywhere. When liquids contain much solid matter they should be allowed to settle



as much as possible before filtering. Although the filter can be left without attention, it is always well to bear in mind that syphons are dangerous things, especially when one places a Winchester quart as a receiver, and the filter is connected with a vessel containing 10 gallons of liquid.

The PRESIDENT thought this an extremely efficient filter and one that would be useful for solutions containing little sediment. Was it capable of being used for syrups? he asked.

Mr. ROBINS wished to know if felt and earths, as kaolin, might be used as filtering-media.

Mr. GUYER asked if the apparatus had been used for liquid extracts, some—for instance, taraxacum—being especially difficult to filter.

Mr. STEAD said, in principle, this device resembled one described by Dr. Symes some years ago, consisting of a cylinder with filtering-medium at one end, which was then



filled with liquid and acted as a syphon, and therefore automatically.

Mr. GUNN, replying, remarked he had omitted to say that it was his custom to tie in the bung at each end of the cylinder, in order to withstand the pressure exerted. Only one sample of syrup, of about 6 or 8 gallons, had been submitted to the process, but this had led to very satisfactory results, and it was his intention to further experiment with them and also liquid extracts, which he had not yet tried. There was no objection to felt and earthen. Heavy sediments soon clogged up the filter, so it was well to allow such to settle as much as possible.

#### LIVERPOOL CHEMISTS' ASSOCIATION.

At the meeting held on Thursday, February 28, the PRESIDENT (Mr. J. Smith) at the opening of the proceedings referred to the great loss which the Association had suffered by the death of Mr. R. Parkinson, their late Treasurer. He was, said Mr. Smith, a most unselfish and genial man. He proposed that a vote of sympathy be sent to Mr. Parkinson's relatives.

Mr. SHAW seconded this motion, and it was unanimously agreed to. A paper was then read on

#### NATURE'S POLYPHARMACY.

By Professor William Carter, M.D., &c.

In this lecture the author, starting from a physiological basis, pointed out that as a reaction from old medicinal formulae there had recently been a tendency to simplicity in prescribing, and the consequence is that some physicians, acting upon the latter principle, rather than prescribe a single remedy which is not consistent with nature, prescribe none at all: with them medicine has reached the vanishing-point. Professor Carter questioned the wisdom of that course, for, as we gain experience, we find that there is much truth in the traditional polypharmacy, while the stricter knowledge acquired by pharmacological research is not always applicable to the treatment of human beings. A unicellular organism, without organs at all, presents pharmacological difficulties—we cannot say, without experiment, how a certain drug will act upon it—and these difficulties increase as we go up the scale. Even when we reach man we cannot say that he will react the same towards a drug in 1905 that he does in 1895. He is not the same being then, nor is he at the end of any two hours. There is no better index of the chemical changes which go on in the body than the urine, which varies in composition from day to day, and from hour to hour. All this is reflected in the effects of drugs; thus hypnotics act best when given near bedtime.

What relation have these facts to any facts of drug-administration? Why, just this—that so complex and variable a mechanism will probably require a variable and complex treatment when it becomes disordered. The hackneyed rules which should guide the writer of prescriptions, in order that the pharmaceutical preparations may act *cito, trito, et jucunde* (quickly, safely, and pleasantly), generally direct that a medicinal formula may consist of *basis, adjuvans, corrigens, and constituents*—or the chief substance with which to cure, that which assists it, that which corrects any unpleasant effect, and that which serves as its vehicle—but they do not contemplate anything outside this; and modern ideas would be very much scandalised if a prescriber deliberately, and of set purpose, placed on paper in the same prescription the names of substances which were directly antagonistic to each other physiologically.

He would be reproached for blowing hot and blowing cold at the same time, with being a mere empiric, with departing from the simplicity of science, and much more to the same effect, yet probably such an objector would be very frequently guilty of the same kind of inconsistency as he criticised in others; for it is a curious and instructive circumstance that many of the great vegetable remedies, the value of which has been established by years or generations of the experience of thoughtful and observant medical men, contain just such antagonistic principles. But a single name being given to the drug, its contradictory and compound nature is not thought of by those who prescribe it.

To a few examples of this kind of natural polypharmacy

Professor Carter drew the attention of the members. First he spoke of jaborandi, which contains two absolutely antagonistic alkaloids, pilocarpine and jaborine, but the latter in so small quantity as only to control the action of the former. Indeed, Professor Carter has found pilocarpine to so irritate the stomach that he prefers to use jaborandi itself in some cases to avoid this. It does not, like the alkaloid, depress the heart. In the course of a celebrated criminal trial which took place in Liverpool some years ago, a medico-legal expert, who admitted that he knew next to nothing of medicine as a practical art, expressed the opinion that the smallest official dose of tincture of jaborandi, of which Professor Carter had advised the administration to relieve a distressing dryness of the mouth, would probably depress the heart. This, however, is just what it will not do, the jaborine and the alcoholic vehicle more than counteracting the depressing effect which pilocarpine alone might cause, either directly or indirectly, through provoking sickness.

The British Pharmacopœia contains digitalis in three forms—(1) the dried leaf, (2) the tincture, (3) the infusion. The leaf contains several distinct principles, of which one—digitonin—is the direct physiological antagonist of the others. These last cause the small arteries, as well as the cardiac ventricles, to contract powerfully, and hence raise the general blood-pressure; while the first, if pure, will, like saponin, with which it is nearly identical, cause them to dilate and the blood-pressure to fall. But owing to its much greater solubility in water than some of the others there is a relatively larger proportion of digitonin in the infusion than in the tincture—at least, such is said to be the case—and hence the contracting effect of digitalin and the other principles that resemble it is more controlled and moderated by the infusion than by the tincture. If this is correct, it may help to explain what practical experience seems long previously to have settled—viz., the superiority of the infusion over the tincture in the treatment of aortic regurgitation, in which affection any undue amount of contraction of the smaller arteries would be a great disadvantage. In the case of digitalis, therefore, as in that of jaborandi, experience has established the fact that the blending of physiological opposites which Nature has produced for us is superior to either of the blended things when given alone, although any such intentional blending on the part of the prescriber would probably be characterised as the worst form of polypharmacy. The rough proof often given of the superiority of the infusion—viz., that a given quantity of it will when shaken froth more strongly and for a greater length of time than will an equal bulk of water into which has been poured an amount of tincture representing the value of the digitalis contained in the infusion—is no proof at all. Professor Carter finds in experiment that the very reverse is the case.

Having alluded in passing to physostigmine and calabarine, Professor Carter turned to the oldest and best of all the vegetable products of the Pharmacopœia—opium. This, he said, is the most conspicuous example anywhere afforded in nature of this most despised, though in the present case most useful, polypharmacy. For, besides gum, sugar, and other vegetable products, opium is said to contain no fewer than seventeen or eighteen different alkaloids, two neutral principles, and one peculiar acid, so that a prescriber of this drug, even though he may, perhaps, be flattering himself that he is conforming strictly with present-day notions of simplicity in pharmacy, is a polypharmacist of the worst and most pronounced type. And not only are the constituents of opium very numerous, but, like the other drugs mentioned, it affords in its thebaine and morphine a further illustration of direct physiological antagonism.

The lecturer then directed attention to an example of polypharmacy, which he considered of a pre-eminently useful character though much despised by many who have never taken the trouble to prove its worth. It was the following prescription of the late Dr. Graves:—

|                     |    |    |    |                      |
|---------------------|----|----|----|----------------------|
| Pulv. jalapæ ..     | .. | .. | .. | gr. v.               |
| Pulv. rhei ..       | .. | .. | .. | gr. v.               |
| Pulv. scammoni ..   | .. | .. | .. | gr. v.               |
| Elaeterii ..        | .. | .. | .. | gr. iss.             |
| Pot. bitartratis .. | .. | .. | .. | ℥ss.                 |
| Pot. sulphatis ..   | .. | .. | .. | ℥ss.                 |
| Σrupi zingiberis .. | .. | .. | .. | q.s. ut. fiat bolus. |



With this Dr. Graves used to treat—and well treat, as he tells us—many dropsical patients. Professor Carter could fancy the scornful curl of the lip of the very clever young pharmacological student of to-day as he runs his eye over this prescription, in which quick purgatives and slow ones, watery and simple ones, those which require an admixture with bile to ensure their activity and those which act equally well when injected into the blood, are all jumbled up together, and finally massed into a bolus big enough for a horse; and, if he happens to be as humane as he is scientific, the contempt for such old-fashioned prescribers as Graves will be blended with pity for the poor people who grew dropsical before the days when a minute powder of elaterine, or perhaps even a minuter pillule, and that pillule a sugared one, as representing what is termed the “elegant” pharmacy of the present time, would cure them *cito, trito, et jucunde*. “If I had the misfortune to be generally dropsical, and could be permitted personally to choose between the two methods,” said Professor Carter, “I should certainly select the bolus. By that means I should feel sure that a complete evacuation of my intestinal contents, and not a mere watery discharge, would be effected; whereas by the other method I should feel almost as sure that, while my small intestines were gradually undergoing contraction, till at length they would be scarcely of greater girth than my thumb, my large intestine would be gradually distended by a compact solid faecal residuum, which no effort of mine, even if my strength were normal instead of at the lowest ebb, would enable me to evacuate. This is just what I have seen after the elegant method has been followed, but is just what Dr. Graves’s prescription was designed, and is effectual, to prevent.”

Finally, the Professor said that Warburg’s tincture is a good preparation, though polypharmic, and he was ready to admit that if it ever should be his lot to be the subject of one of those terrible remittent fevers which seem to shut out the possibility of hope, he should manifest a weak bias towards being cured by Dr. Warburg’s polypharmacy rather than being allowed to die according to the strictest rules of the nineteenth-century scientific pharmacology.

On the motion of Dr. SYMES, seconded by Mr. M. CONROY, a hearty vote of thanks was accorded to the lecturer.

A brief discussion ensued, in which Messrs. J. SMITH (President), A. C. ABRAHAM, COWLEY, and WARDLEWORTH took part.

Mr. HAROLD WYATT, jun., then read two notes, viz.:—

#### ON A SAMPLE OF CRYSTALLISED SUGAR.

The sugar had given a blue colour when added to milk, and the author’s investigation showed that this was due to the presence of some aniline dye, not put into the syrup before crystallisation, but rubbed down with some of the sugar, and then sifted through the crystals, showing that the “improvement” in colour had most likely been made by the broker, and not by the manufacturer. Mr. Wyatt’s next note was on

#### SUPPOSITORIES.

This referred to those containing vegetable extracts. Instead of thinning the extract down to a syrupy liquid, and adding to cocoa-butter in a dish, Mr. Wyatt suggested a little “tip” he had got from a French pharmacist, and which has been exceedingly useful—viz., the use of a wide-mouthed bottle (fitted with a good cork, or, better, an indiarubber stopper) instead of a small capsule or suppository water-bath. The cocoa-butter is put into this bottle, warmed on a water-bath until liquefied, and then the thinned extract or other medicament added, the whole being shaken vigorously until ready to pour into the moulds. It is easy to get as much as 5 gr. of extract into a 15-gr. suppository in this way.

#### ARGON.

Dr. WILLIAM CARTER also read during the meeting some letters from Mr. Gordon, who has been associated with Lord Rayleigh in the isolation of argon. The letters gave interesting details as to the processes adopted for checking the various experiments made in the discovery of the new element. A tube of the new gas, sent by Mr. Gordon, was also shown, and an attempt was made to show its spectrum, but owing to a slight mishap in connection with the spectroscope this was not altogether satisfactorily accomplished.

#### BRIGHTON JUNIOR ASSOCIATION OF PHARMACY.

On February 27 the above Association held a musical and social evening. Mr. C. G. Yates was in the chair.

### Trade-Marks Applied for.

ANY person who has good grounds of objection to the registration of any of the following marks should at once communicate with Sir Reader Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(From the “Trade Marks Journal,” February 27, 1895.)

“ICOVENE”; for a new one-solution photographic developer. By H. R. Browne, 1 Cornfield Road, Eastbourne. The essential particular is the word “Icovenne.” 181,615.

“LYNN’S FIG REMEDY,” device of clustered fruits, and wording and signature on label; for remedy for biliousness, indigestion, &c. By J. H. Lynn & Co., 11 and 13 St. Bride Street, E.C. The essential particulars are the devices of clustered fruits and facsimile signature. 183,882.

“ARCHER’S WOUND-LOTION,” and facsimile signature; for medicated wound-lotion. By Archer & Co., 7 Lovaine Terrace, Newcastle-on-Tyne. The essential particular is the signature. 184,934.

“FORBLOOMER,” and wording on label; for a patent blood-mixture. By Astley Cooper & Co., Oatlands Chemical-works, Meanwood Road, Leeds. The essential particular is the word “Forbloomer.” 185,202.

“K CLUB,” and device of a fez; for a flavouring for mineral waters. By A. Boake, Roberts & Co., Clonskea Chemical-works, 100 Warton Road, Stratford, E. The essential particular is the device. 183,084.

Device of toilet-basin and ewer; for perfumery and toilet-articles, &c. By E. Danziger, trading as K. Weil, 167 Piccadilly, W. 184,694.

“CAMEO”; for perfumery and toilet-articles, &c. By Wm. Topley & Sons (Limited), 8 and 10 New Road, Woolwich. 184,780.

“CUTEXINE,” and facsimile signature; for perfumery. By Fryer & Co., 1 Pier Terrace, Lowestoft. The essential particular is the facsimile signature. 185,048.

(From the “Trade Marks Journal,” March 6, 1895.)

“KERALINE”; for colouring-matters (mineral oxides or earths) for marking sheep. By J. R. Carruthers, 70 King Street, Tradeston, Glasgow. 184,413.

“CARLA”; for medicated lotion for chapped hands. By Emily Horton, 186 Gloucester Road, Bishopston, Bristol. 184,887.

Device of chancicleur; for linseed oil used in manufactures. By F. Friend, trading as Gale and Friend, 11 King William Street, London. 183,798.

“SHE BITTERS,” and device of a leaf; for bitters in class 43. By A. F. Spencer, 20 Montpelier Crescent, Brighton. The essential particular is the device of leaf. 184,209.

“J. EWING & Co.,” as signature; for mineral and aerated waters. By J. Ewing & Co., 10 Church Place, Dumfries. 184,597.

“KOPONAX”; for perfumery, and a preparation for the hair. By F. S. Collyer, 10 Smithford Street, Coventry. 184,851.

“PARADISE-BIRD BRAND,” and device of bird of that species; for perfumery and toilet articles. By E. & T. Pink, Staple Street, Long Lane, Borough, London. 185,171.

“ILAX,” a composition for preventing clouding or condensation on windows. By F. Tingle, 110 Cannon Street, London. 185,305.



## Legal Reports.

### BEECHAM'S PILLS.

In the Chancery Division of the High Court of Justice, on Friday, March 1, Mr. Justice North had before him a motion on behalf of Thomas and Joseph Beecham, trading as "Beecham," against Messrs. Hargreaves & Saunders, chemists, of Hulme, Manchester, for an injunction to restrain the defendants from selling as Beecham's pills, pills not manufactured by the plaintiffs. Mr. Eve appeared in support of the motion, and Mr. Martelli for the defendants. Counsel stated that the defendants had submitted to a perpetual injunction, and to pay an agreed sum for damages and costs. Order accordingly.

### DEFICIENT SEIDLITZ-POWDERS.

At the Mansfield (Notts) Police Court, on March 3, John Stanley, chemist, of Sutton-in-Ashfield, Notts, was charged with an offence under the Food and Drugs Act in respect of seidlitz-powders.

Colonel Storey, chief inspector under the Notts County Council, proved that on January 22 a man was sent to defendant's shop for six B.P. seidlitz-powders. These were subsequently sent to the county analyst, who certified the average weight of each blue packet to be 133.2 gr. instead of 160 gr. and of each white packet to be 36.8 instead of 38. The composition of the contents was found to be correct. This being the first case, he did not press for a heavy penalty.

The solicitor for the defence admitted the facts, and said his client would be called and would swear that he had sold the powders just as they were received from Messrs. Oldfield, Pattinson & Co., a firm of repute, who he believed accepted all responsibility in the matter. Since these proceedings were commenced, the stock in Manchester had been examined, and some had been found to be over weight and some slightly under. He contended the difference did not affect the medicinal value of the powders.

Defendant was called, and said he sold the powders just as they were received. He had kept them quite three months in a dry cupboard.

Mr F. D. Crossley, representing Messrs. Oldfield, Pattinson & Co., proved the supply of the powders to defendant by his firm. In his opinion the powders might easily lose 15 gr. between the damp atmosphere of Manchester and the storage for three months in a dry cupboard. He accounted for the errors somewhat by the rapidity with which girls packed the powders, which prevented mathematical accuracy.

Dr. Cuttlewood, a local medical man, gave evidence in support of the defence.

The Bench imposed a fine of 25s., and relieved defendant from the charge of any wilful neglect. They expressed the hope that the wholesale people would be more careful in the future.

### TARTARIC ACID FOR SODIUM SULPHATE.

In the Queen's Bench Division on Monday, before Mr. Justice Cave and a special jury, Mr. George Blyton, an engineer in the employment of the North London Railway, brought an action against Messrs. Townson & Mercer, chemists and druggists, Bishopsgate Street, to recover damages for injuries sustained by him through the negligence of their servants in supplying him by mistake with tartaric acid instead of sodium sulphate. The defendants admitted their liability, and the sole question for the jury was as to the amount plaintiff was entitled to recover.

Mr. Cock, Q.C., who appeared for the plaintiff, said his client suffered occasionally from gout, and had a prescription for it which contained sodium sulphate. On June 30 last, he sent to the defendants' shop for 4 oz. of sodium sulphate. He was supplied, however, with tartaric acid, and the results to him when he took a dose of  $\frac{1}{2}$  oz. were most serious, it being a mercy he was not killed. He suffered from vomiting for several days, his sight and memory were seriously affected, and the skin peeled off his body. In addition,

the dose brought on a most serious attack of gout, for the shock to the system in a man of his age was no slight matter.

The plaintiff in his evidence, said that as soon as he took the dose he felt something was wrong. His throat seemed to be on fire, and he had a burning sensation inside. He confirmed what his counsel had stated. He still felt the effects of the dose, although he was better.

Cross-examined: He had previously suffered from gout, but drank beer notwithstanding. His sight was not affected by the "hot eye" of gout. He had never had a serious attack of gout until this time, nor had he been even attended by a doctor for it. An attack of gout was passing off at the time he took the dose. He did not send for a doctor until the Tuesday, the dose having been taken on Saturday night. He was at home for a week. He took  $\frac{1}{2}$  oz. of the stuff.

Mrs. Blyton, the plaintiff's wife, said she had noticed a great change in her husband since he took the stuff.

Cross-examined: She could tell by the look of his eyes that his sight was affected. They seemed to be starting out of his head.

Dr. Baker, of Finchley, said he was called to plaintiff on July 3. In his opinion the fresh attack of gout was brought on by the shock to his system.

Cross-examined: The injury to the eyes would be caused by the straining during the vomiting. Tartaric acid would bring out gout in a gouty subject. Beer was one of the worst things a gouty subject could take. The vomiting would weaken the system.

Re-examined: One ounce of tartaric acid had been known to produce fatal results.

For the defence, Mr. George Paddock Bate, M.D., F.R.C.S., was called, and stated that he examined plaintiff on Aug. 24. He was weak, but he observed no other bad symptoms. The weakness would follow an attack of gout. Tartaric acid would not bring on an attack of gout.

Cross-examined: He examined his pulse, heart, and tongue, he believed, but he could not swear as to the tongue and heart.

Mr. Dickens, Q.C., who appeared for the defendants, said his clients most deeply regretted the unfortunate accident that had occurred, and had at once discharged the assistant who had caused it. No doubt there had been considerable discomfort caused to the plaintiff, but it was idle to talk about danger to life. There was no claim for special damage, and considering that vomiting at once commenced, the whole  $\frac{1}{2}$  oz. must practically have been at once got rid of. He submitted that it was a case for most moderate damages.

After the Judge had summed up briefly, the jury returned a verdict awarding the plaintiff 20%. It afterwards appeared that the defendants had paid 50% into court.

We are informed that Messrs. Townson & Mercer were quite willing to compensate the plaintiff in this case for the unfortunate mistake of their assistant, and actually offered him 50%, but that as 150% was claimed, which they regarded as excessive, they had no alternative but to defend the case in court.

### A BAD CERTIFICATE UNDER THE SALE OF FOOD AND DRUGS ACT.

THE Loughborough Magistrates, on February 28, dismissed a summons for selling adulterated milk against George Pratt, on the ground that the certificate given by Dr. Dyer was bad, as it was certainly not given under "the hand and signature of the analyst." The technical objection raised and sustained was that Dr. Dyer's name was printed on the certificate, and not written.

### AGENT, NOT PURCHASER.

At the Newcastle-under-Lyme County Court, on Tuesday last, Messrs. Williamson & Co., cattle-oil manufacturers, of Great Grimsby, sued Thomas Edwards, shopkeeper, of Audley, to recover 8l. 16s., value of cattle-oils supplied. The evidence showed that the defendant was written to by the plaintiffs in July, 1892, inviting him to accept the local agency for the sale of their oils, on which he was to have 100 per cent. profit. The defendant replied that he would accept the agency, if it was as advantageous as the plaintiffs



represented. The defendant subsequently found that the oils would not sell, and returned the stock, but the plaintiffs refused to accept it. The plaintiffs' representative stated that the defendant was allowed specially favourable terms in consideration of his becoming a sole agent and taking over the goods absolutely. His Honour Judge Jordan said that argument was very clever and very sharp, but it would not do for him. (Laughter.) From the correspondence it was plain that the defendant intended to become an agent only, and not a purchaser of the goods; therefore he should give judgment for the defendant, with costs.

#### GINGER IS FOOD.

AT the Grimsby Police Court on March 4, Harry Mills, grocer, was charged with selling adulterated ginger. Mr. Baynes, of Hull, the public analyst for the borough, said that one-half of the ginger was pure, and the other half was exhausted. Mr. Sykes, for the defence, submitted that ground ginger was not food, but this defence failed. He also urged that it had perhaps lost its property and strength by long-keeping. The Magistrates thought the case was proved, but expressed the opinion that it was a pity to have incurred such heavy expenses by bringing the public analyst to give evidence. They would only impose a fine of 4s, which, with the expenses, would make 5l. 10s.

#### CARBOLIC SMOKE-BALLS MUST BE STAMPED.

AT Marlborough Street Police Court, on Wednesday, the Carboloc Smoke-ball Company (Limited), of Oxford Street, W., was summoned before Mr. Newton for selling a box containing a carboloc smoke-ball without a stamp.

Mr. Alpe, barrister, prosecuted on behalf of the Inland Revenue authorities, and Mr. Arthur Newton, solicitor, appeared for the defence.

Evidence having been given as to the purchase of one of the smoke-balls by an Excise officer, Mr. Arthur Newton, in defence, said that as far back as 1890 the company wrote to Somerset House asking whether it was necessary to have a stamp for the article in question, and received a reply stating that it was not. The Magistrate pointed out that the authorities since that time might have changed their opinion upon the subject. Mr. Alpe stated that in 1894 the company was informed that it was necessary to have the article stamped. The Magistrate said he would be glad to grant a case upon the question. Mr. Newton did not desire to appeal. The Magistrate said that the company could petition the authorities at Somerset House, pointing out that until the year 1894 it had reason to believe that it was acting within the law. A fine of 10s., with 2s. costs, was imposed.

#### AN ABORTED EXHIBITION.

ON Thursday, in the Westminster County Court, Messrs. Idris & Co. (Limited), chemists and mineral-water makers, of Camden Town, sued a Mr. Black, an exhibition agent, of Newcastle Street, Strand, for 15l. Plaintiffs' solicitor said the defendant communicated with Messrs Idris & Co. some time ago about an exhibition to be held at Oxford. Plaintiffs agreed have a stand there, for which they paid defendant 5l. Plaintiffs sent their traveller to Oxford, and had the town placarded; but the exhibition was never held, and plaintiffs wanted their 5l. back, the cost of fitting the stand, travellers' expenses, &c.—in all 15l. Defendant admitted that the doors of the exhibition were opened, but instead of an exhibition the managers had to run concerts. Plaintiffs had not lost much by the affair. The placarding of the town must have done them good. His Honour found for the plaintiffs for 12 guineas, with costs.

**TOO CONFIDENT.**—An Indianapolis doctor gave one of his lady patients what he thought was codeine, but the small dose made her unconscious, and she was soon at the point of death. The doctor, to show his confidence, took a larger dose than the woman had. Half an hour later he, too, was unconscious. It was a tropine he had been playing with.

## Gazette.

### PARTNERSHIPS DISSOLVED.

- Cook, A., M.D., and Evans, P. C., M.D., Cardiff, under the style of Doctors Cook & Evans, medical practitioners.
- Ekin, C., and Appleby, E. J., Bath, under the style of Ekin & Appleby pharmaceutical chemists.
- Grimshaw, W., and Hackney, W., Manchester and London, under the style of William Grimshaw & Co., drysalts, &c.
- Ottey, T., and Morgan, R. B., Burton-upon-Trent, under the style of Ottey & Morgan, chemists and druggists and patent-medicine vendors.
- Pearce, H. A., and Pelly, E. N. R., Colonial Avenue, Minories, E.C., isinglass and sugar merchants.
- Strandring, J., and Cooper, F. R., Manchester, under the style of Strandring, Son & Co., chemists and druggists and mineral-water manufacturers.
- Watkinson, B. T., and Daniel, W. A., Leeds, under the style of Watkinson & Co., photographic-apparatus manufacturers.

### THE BANKRUPTCY ACTS, 1883 AND 1890.

#### RECEIVING ORDER.

Clements, Robert George, trading as R. G. Clements & Son, Norfolk Road, Dalston, N.E., late Jewry Street, E.C., drug-merchant.

#### ADJUDICATIONS.

Beckett, Robert Whitton, Shipham, Norfolk, dealer in drugs and general dealer.

Parsons, Alfred, Tenterden, Kent, farmer, dairyman, and cattle-spice-manufacturer.

### ORDERS MADE ON APPLICATION FOR DISCHARGE.

Bernstein, George (known as George Bernard, trading as George Bernstein & Co.), Budge Row, E.C., late Montague Street, and Guilford Street, Russell Square, W.C., and Crutchedfriars, E.C., merchant—discharge suspended for two years, ending January 31, 1897.

Rogers, Joseph, Hanover Square, W., dentist—discharge suspended for five years from February 9, 1892.

## Deeds of Arrangement.

The following deeds of arrangement with creditors have been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision in the Act making any of these arrangements binding upon dissenting creditors.

Harris, Henry William, 224 High Street, Exeter, chemist and druggist. Trustee, Albert L. Honey, 23 Catherine Street, Exeter, accountant. Dated, February 26; filed, March 4. Unsecured liabilities, 1,592l. 4s. 2d.; estimated net assets, 415l. 7s. 5d. The following are scheduled as creditors:—

|                                    | £   | s. | d. |
|------------------------------------|-----|----|----|
| Baukers' claims .. .. .            | 254 | 0  | 0  |
| Chave & Jackson, Hereford .. .. .  | 38  | 0  | 0  |
| Evans, Gadd & Co., Exeter .. .. .  | 50  | 0  | 0  |
| Harris, C. E., Devizes .. .. .     | 127 | 0  | 0  |
| Harris, E., Newbury .. .. .        | 153 | 0  | 0  |
| Harris, G. F., Marlborough .. .. . | 63  | 0  | 0  |
| Harris, T., Calne .. .. .          | 637 | 0  | 0  |
| Havill & Son, Exeter .. .. .       | 46  | 0  | 0  |

Warburton, James Pennington, 36 Selborne Street, and 2 Richmond Row, late 219 Upper Parliament Street, Liverpool, physician and surgeon. Trustee, Arthur Thraves, Victoria Street, Liverpool, accountant. Dated, February 22; filed, February 23. Liabilities unsecured, 192l. 1s. 6d.; estimated net assets, 33l. The following are scheduled as creditors:—

|                                         | £  | s. | d. |
|-----------------------------------------|----|----|----|
| Clay, Dod & Co., Liverpool .. .. .      | 18 | 0  | 0  |
| Jones, —, Liverpool .. .. .             | 14 | 0  | 0  |
| Quilliam, W. H., Liverpool .. .. .      | 15 | 0  | 0  |
| Russell, —, Liverpool .. .. .           | 12 | 0  | 0  |
| Smith, Henry J., Liverpool .. .. .      | 12 | 0  | 0  |
| Summers, —, Liverpool .. .. .           | 14 | 0  | 0  |
| Whittle & Co., Liverpool .. .. .        | 20 | 0  | 0  |
| Williams & Sutcliffe, Liverpool .. .. . | 14 | 0  | 0  |



**Pyle, Robert**, North Road, Durham, drysalter. Trustee, William Richardson, 11 and 13 John William Street, Huddersfield, accountant. Dated, February 23; filed, March 4. Unsecured liabilities, 1,390*l*.: estimated net assets, 754*l*. 13*s*. 2*d*. The following are scheduled as creditors:—

|                                            | £   | s. | d. |
|--------------------------------------------|-----|----|----|
| Beanfof & Co., Newcastle .. .. .           | 35  | 0  | 0  |
| Benton, J., & Co., London .. .. .          | 30  | 0  | 0  |
| Berry, William, Manchester .. .. .         | 79  | 0  | 0  |
| Browning, J. H., & Co. London .. .. .      | 29  | 0  | 0  |
| Bryant & May, London .. .. .               | 63  | 0  | 0  |
| Charuley & Co., Sunderland .. .. .         | 28  | 0  | 0  |
| Davison, R. & W., Glasgow .. .. .          | 29  | 0  | 0  |
| Davison & Sons, Glasgow .. .. .            | 21  | 0  | 0  |
| Feren, M. J., Bishop Auckland .. .. .      | 20  | 0  | 0  |
| Health Biscuit Company, London .. .. .     | 23  | 0  | 0  |
| Palmer, J., & Sons, London .. .. .         | 23  | 0  | 0  |
| Robin & Houston, Glasgow .. .. .           | 74  | 0  | 0  |
| Smith, John, Shipley .. .. .               | 60  | 0  | 0  |
| Spratt's Patent (Limited), London .. .. .  | 48  | 0  | 0  |
| Stark, A., London .. .. .                  | 270 | 0  | 0  |
| Symington & Co., Market Harborough .. .. . | 47  | 0  | 0  |
| Wherry, R., & Son, Bourne .. .. .          | 25  | 0  | 0  |

## Marriage.

**YOUNGMAN—FISHER**.—On February 21, at St. James's Church, Bury St Edmund's, by the Rev. G. Hodges, Vicar, William Edward Youngman, chemist and druggist, of Bury St. Edmund's, to Annie Theophila, daughter of the late Theophilus Fisher, of Bradfield.

## Deaths.

**DYER**.—We regret to announce the death of Mr. William Dyer, pharmaceutical chemist, of No. 1 Corn Market, Halifax, aged 74, from bronchitis following a severe attack of influenza. Mr. Dyer, was born at Bacup on February 19, 1821, was apprenticed to Mr. Alex Suter, and began business in Northgate. Three years later he succeeded to the business of the late Mr. Lofthouse, in which shop he carried on a very prosperous and flourishing trade for forty-five years, during which he was granted the royal warrant of "chemist to her Majesty the Queen." The shop was a unique specimen of architecture of the sixteenth century, and was pointed out to visitors as one of the sights of Halifax. It was acquired by the Corporation in 1889 for street improvements, and was bought by Mr. John Lister, of Shibden Hall, and rebuilt on a position of great advantage in Shibden Park as a villa residence. It is now called by its present tenant "Daisy Bank," but by everyone else it is still known as "Dyer's Old Shop." The premises in which Mr. Dyer continued his business were erected almost upon the old site. In politics Mr. Dyer was a Conservative, but he never sought municipal honours. He was, however, a leading man in the town, was director of several companies, was prominent in the Wesleyan body, and will be greatly missed in many capacities, for he was highly esteemed by all who knew him.

**EDWARDS**.—On February 16, W. S. Edwards, pharmaceutical chemist, Great Dover Street, London. Aged 84.

**GEDDES**.—On February 24, William Geddes, chemist and druggist, Oldham. Aged 67.

**GREEN**.—On February 14, Nathan M. Green, chemist and druggist, Lindley. Aged 45.

**LOWE**.—On February 21, William E. Lowe, pharmaceutical chemist, London. Aged 73.

**NOVIS**.—On February 25, at his residence, 174 St. John's Road, Upper Holloway, N., Benjamin B. Novis. Aged 82. The deceased gentleman was superannuated by the Islington Guardians about four years ago, after having been in their service as dispenser for over thirty-seven years, in which capacity his courteous and unaffected manner won for him the regard of all officers with whom he was associated. Punctilious and precise in all business matters, he was yet possessed of a fund of geniality and kindly humour which made him always a pleasant companion. He was buried at Highgate Cemetery on March 2.

**PARS**.—On February 22, Mr. Robert Corell Pars, chemist, Thrapston. Aged 69. Deceased was the father of Mr. Pars, chemist and druggist, Stamford, and held many public offices, being a director of the Gas Company, a prominent Mason, member of the Parish Council, and a staunch churchman and Conservative. When the funeral took place on Wednesday of last week all the shops in the town were closed, and the tradesmen attended the funeral, while there were also present representatives of the Freemasons. Mr. Charles Pars was the chief mourner. The Rev. F. M. Stopford (rector of Tichmarsh) and the Rev. F. G. Hodgson (rector of Aldwinckle) officiated at the ceremony.

**TROUGHTON**.—The death of Mr. Christopher Troughton, one of the last candidates for an annuity of the Benevolent Fund of the Pharmaceutical Society, is reported. Mr. Troughton was at one time a well-known chemist in Old Hall Street, Liverpool, but street-improvements affected his business. Mr. Troughton was in his seventy-ninth year.

**WATKINS**.—On February 21, Mr. Frederick Watkins, formerly a chemist and druggist in Swansea. Latterly he had been employed by the Swansea Corporation as a rate-collector. He was very popular in the district, and was in the habit of writing poetical notices of important events and on the deaths of prominent citizens.

## Personalities.

**ALDERMAN MOON**, chemist, Trafalgar Street, Brighton, has been appointed a J.P. for Brighton.

**PROFESSOR BAYLEY BALFOUR**, of Edinburgh, has for his distinguished services to science been elected a member of the Athenæum Club.

**MR. CHARLES T. SELLENS**, chemist and druggist, of Lydd (Kent), has been re-elected auditor for the borough, an office he has held for many years.

**MR. JOHN REELER**, formerly of Cape Town, called at our office one day this week. Mr. Reeler has settled down at Sydenham in the hope that our more vigorous climate and freedom from business cares may give him better health than he had at Cape Town.

**MR. HORACE BILLINGTON**, the curator of the Botanical Gardens at Old Calabar, West Coast of Africa, has just arrived in this country on leave of absence. Mr. Billington, who has now been five years on the African coast, is making special efforts to introduce the cultivation of drugs and other economic products in the district where he is stationed, and has already succeeded excellently well in many directions. He may be addressed here, care of Thomas Christy & Co., Lime Street, E.C.

## Business Changes.

**MR. EDWARD ASPINALL** has removed his Neigeline and Taklis businesses to 43 Rathbone Place, W.

**MR. JOSEPH CHAPELOW**, chemist and druggist, 14 Claypath, Durham, has added a photographic studio to his establishment.

**MR. B. A. SMITH** announces that he has commenced business at 36 Crutched Friars, E.C., as chemical-merchant and agent, under the style of B. A. Smith & Co., and that Mr. Henry Boyce will assist him in working the business.

A NEW BUSINESS has recently been opened at Balham Hill by Mr. W. J. Boyes, under the title of the "Modern Pharmacy." It has been fitted throughout with Italian walnut in very good style by Mr. H. Mills, 203 City Road, E.C.

**MR. WILKINS**, chemist, has, for the past forty-six years carried on business at No. 8, The Pavement, Clapham, and now, at the good old age of 70 years, he is compelled to vacate his old shop. The heavy rates, the depression in trade, render impossible the payment of an increased rental—an increase which also prevents the sale of his business to another tenant, so that he goes out, practically penniless, and much do I sympathise with him.—*Clapham Observer*.



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last few months assumed a more prophetic tone than  
pharmacopœial criticism generally has about it, and,



although the destructive element is not advancing, it is apparent that the criticism is being rapidly focussed into one common desire—complete revolution in the construction and contents of the British Pharmacopœia. Not since the disastrous publication of 1834 has the voice of critics so generally condemned much of the Pharmacopœia as unworthy of the British nation; yet, behind all that, we are bound to say there is a big volume of quiet content with things as they are, a satisfaction that the Pharmacopœia meets most of the everyday requirements of medicine and pharmacy.

We are a very conservative people, and as long as that bottle of tr. gallæ reposes on the shelf, where it has stood unstoppered for a lifetime, we have a sentimental objection to having the formula for it removed from the Pharmacopœia. Our only grievance is that the Pharmacopœia revisers have taken our sentiments seriously and retained the formula. And so it is with many other things official. We know that there are many that never would be missed, but we dread the act of parting.

It appears, however, that medical practitioners and pharmacists have made up their minds to face that parting, and in a more or less vague sort of way they have expressed their wishes for more chemistry, more pharmacology, more preparations. Destructive criticism is being drawn out thin and reduced to expressions of personal opinion, which are worse than useless to conscientious editors. We have come to a point at which we know not what is left of the old Pharmacopœia, and have no notion at all as to what the new will be like.

Can this be remedied? Is it possible by constructive criticism to formulate the grand principles upon which a Pharmacopœia for the British Empire should be constructed? We think it is, and in a series of papers by well-known pharmacists we propose to show how the Pharmacopœia may be improved by the reconstruction of the old and introduction of new features.

It is not necessary to go into details or to expose existing petty inconsistencies; enough of that is already on record. Moreover, it should be better known than it is that the editor of the Pharmacopœia welcomes from all quarters personal communications in regard to facts in the book which anyone has reasonable grounds for supposing require emendation. There is room for more of the friendly element in pharmacopœial criticism than there has been.

Each of the writers in the series of papers which we will publish endeavours to treat his subject in the broadest way without divorcing that personal opinion which makes all utterances interesting. The fact has not been overlooked that the British Pharmacopœia has an interest beyond the consulting-room and the pharmacy. It is international in respect to trading and science, is a guide to public analysts and law courts, a reference-book for pharmacists wherever Englishmen settle as communities, and should be the daily guide to the immense volume of wholesale dealing in drugs and medicinal chemicals transacted in this country. There is reason for supposing that hitherto the British Pharmacopœia has not recognised all these interests, that its conception is too insular; but it is now agreed that in making it imperial the book should, at the same time, be brought up to the standard which pharmacopœias of other countries exhibit in specific departments.

## METRIC WEIGHTS AND MEASURES.

THE Weights and Measures Act of 1878 gives a table of equivalents of metric with imperial weights and measures, and provides (section 18) that this table "may be lawfully

used for computing and expressing in weights and measures weights and measures of the metric system." Section 21 provides that "a contract or dealing shall not be invalid . . . on the ground that the weights or measures expressed . . . are weights or measures of the metric system"; and section 38 gives the Board of Trade power to verify metric weights and measures by the standards in their possession "if they are satisfied that such weights or measures are intended to be used for the purpose of science or of manufacture, or for any lawful purpose not being for the purpose of trade within the meaning of the Act." The Act of 1839 (section 2) further gives the Board of Trade power to provide local authorities with copies of their metric standards if they think fit to do so. Lastly, in the Model Regulations issued by the Board of Trade in 1890, it is stated that "measures and weights of metric denominations may not be stamped by the inspector for use in trade," but he may verify them for purposes of science or manufacture if he is provided with the standards, or he may send them to the Standards Department.

The actual state of the law, therefore, appears to be that a cheesemonger, say, is legally entitled to exhibit his cheeses and announce them for sale at so much per kilogramme, but that when a customer comes to buy a kilogramme he must weigh out to him 2.20462125 lbs. He may, however, keep a set of metric weights on his premises for the purpose of testing his cheeses chemically, or of manufacturing a cheese-colouring if his formula for such happens to be a metric one, but he must on no account use these weights for selling anything to his customers. This condition applies equally to wholesale transactions, and similarly to the fulfilment of export orders in the United Kingdom.

In November last an inspector under the London County Council informed Messrs. Davy, Yates & Hicks that a set of metric weights which he saw on their premises was subject to confiscation, and that they were liable to a penalty for keeping them in their possession. If he said this without any qualification, we should suppose he went somewhat beyond the law. Anyway, Mr. Yates brought the circumstance to the knowledge of the Chemical Section of the London Chamber of Commerce. The complaint fell on good soil, for Mr. Umney, the Chairman of the Section, is an ardent advocate of the legalisation, if not of the universal adoption, of the metric system, and very little time was lost in drafting a Bill for Parliament, the principal clause of which declares that the Weights and Measures Acts of 1878 and 1839 "shall be so construed as not to prohibit or penalise the use of metric weights and measures, verified by the Board of Trade or local authorities, *by export traders*."

Instead of proceeding with the Bill, Sir Albert Rollit, the Chairman of the London Chamber of Commerce, moved for and obtained a Select Committee of the House of Commons "to inquire whether any, and what, changes in the present system of weights and measures should be adopted." This Committee has already held two sittings, with Sir Henry Roscoe as Chairman, the other members being Sir John Barran, Mr. Burt, Mr. Crombie, Mr. Charles Fenwick, Mr. Alban Gibbs, Mr. Godson, Sir Edward Hill, Mr. Justin McCarthy, Sir Samuel Montagu, Mr. Jasper More, Mr. Fletcher Moulton, Sir Albert Rollit, Mr. Stewart Wallace, Mr. Webster, Mr. Whiteley, and Mr. Wrightson. The Chamber of Commerce, we understand, has named the following four gentlemen a committee to prepare and offer evidence in support of the action desired:—Mr. Charles Umney, Chairman of the Chemical Section, Mr. David Howard, Mr. Francis Yates, and Dr. Stevenson, of Guy's Hospital; and the President of the Pharmaceutical Society



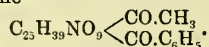
and Mr. Martindale are ready to give evidence on behalf of pharmacy generally.

So far as we know, the difficulty, such as it is, is complained of by export druggists only. In their competition with French and German manufacturers, they have to sell a great many goods by the kilo. if they cultivate an export trade at all, and they are liable to heavy penalties if they venture to weigh these out by metric weights. Nothing is more common in indents from abroad than lines, say, for fifty bottles, each of 1 kilo. or  $\frac{1}{2}$  kilo., of some particular drug or chemical. To fill such an order they must use the equivalent imperial weights.

The grievance is not a very serious one, but the regulation seems altogether ridiculous. For no apparent reason it checks the cultivation of export trade, which it is so much the interest of the country to encourage. But we can hardly think that an Act will be passed to legalise the metric system for export trade exclusively. The simple thing to do seems to be to legalise metric weights and measures for all trade transactions. Is there any sufficient reason why this should not be done?

### THE ACONITE RESEARCH.

SINCE our last issue we have read an article by Mr. Martin Freund, of Berlin, in the *Berichte* of February 25, wherein he joins issue with Mr. W. R. Dunstan in regard to the constitution of aconitine and the priority of the discovery that that alkaloid is acetyl-benzoyl-aconine. Mr. Freund points out that the reason why he has kept silence on the matter for a year is that Mr. Dunstan, in his letter to the *Berichte* a year ago, stated his intention to discuss the formula given by Freund and Beck; but, since this has not been done, Mr. Freund thinks it undesirable to longer delay a correct statement of the facts. He then proceeds to refer to what Wright and what Dunstan considered the constitution of aconitine to be—viz., benzoyl-acovine—and how it split up on hydrolysis; coming to the point where Freund and Beck showed the hydrolytic change to be one happening in two stages—acetic acid being isolated in the first, and benzoic acid in the second, stage—these involving proof that the hydrolytic base of the first stage—viz.,  $C_{32}H_{45}NO_{10}$ —is identical with isaconitine, and that of the second,  $C_{25}H_{41}NO_9$ , is identical with aconine, whence follows the constitutional formula for aconitine—



Having thus stated his position, Mr. Freund proceeds to say that it is not the importance of the work involved which causes him to move in the matter, but because "the statements of Mr. Dunstan are contrary to the facts of the case." He then examines the January 18, 1894, abstracts, in which isaconitine is treated throughout as an isomer of aconitine, and not as a hydrolytic product, and compares these abstracts with Mr. Dunstan's *Berichte* letter and the original papers as published in the "Journal of the Chemical Society" for March, 1894, all this being [done with such adherence to facts that a translation of this portion of Mr. Freund's paper would savour of a repetition of what we said last week. Mr. Freund then goes on to say that

In the original papers the point which is referred to in the abstracts as having to be ascertained becomes all at once a demonstrated fact. The nomenclature and the formulæ of aconitine derivatives are altered—aconitine being represented as acetyl-benzoyl-aconine, and isaconitine as benzoyl-aconine. But Mr. Dunstan appears to have overlooked the fact that in the first of the three papers isaconitine is expressly represented to be an isomer of aconitine, and on that account it is proposed that the name "picraconitine" should be abandoned.

In favour of the new views which he so suddenly acquired, Dunstan was compelled to throw overboard the formulæ he had employed for several years. Since the old isaconitine formula,  $C_{32}H_{45}NO_{12}$ , requires almost the same values as the newly-adopted one,  $C_{31}H_{45}NO_{11}$ , Mr. Dunstan resolved upon making that alteration on the basis of a single gold determination:—

|                                |    |       |           |
|--------------------------------|----|-------|-----------|
| Calculated for the old formula | .. | 21.46 | per cent. |
| " " new                        | "  | 22.50 | "         |
| " Found                        | .. | 22.18 | "         |

This was done although it was contrary to a whole series of analyses of the gold salt previously recorded, and which agreed well with the old formula. The old formula for aconine,  $C_{25}H_{39}NO_{11}$ , was altered to  $C_{24}H_{39}NO_{10}$  without further consideration, and without any new analytical data. It is upon this that Mr. Dunstan bases his formulæ and his claim to priority! Between his formulæ and those we have proposed to adopt there are, however, such differences in the corresponding amounts of carbon that a decision between them is very easily made. But since Mr. Dunstan has not entered upon the discussion he intended, his silence must be accepted as an acknowledgment of the accuracy of our formulæ; and, after waiting a whole year for his reply, I shall no longer hesitate to seek for additional evidence in support of our formulæ by a further investigation of aconitine and its derivatives.

We can scarcely view with equanimity this threat of Mr. Freund's to continue his researches on aconitine, for we recollect when Schmidt and his colleagues took up *Scopola* and carried it a step further than the Pharmaceutical Research Laboratory had done, the British work on the subject ceased. If that should happen with the aconitine research the Pharmaceutical Council had better start the laboratory on fresh lines.

It will be noted that the Pharmaceutical Council have received and discussed the Research Committee's report with a view to publication, but the matter is still under consideration, and may be resumed at the next meeting of Council. It can hardly be satisfactory to Professor Dunstan that this matter should be left unexplained, and perhaps before the anniversary meeting of the Chemical Society he may think fit to make some public statement.

### POISONS IN INDIA.

THE difficulties of controlling the sale of poisons in India have hitherto been practically insuperable. There is in Bengal a municipal Act relating to the sale of drugs, and the retail sale of opium is, for revenue purposes, controlled, but criminal poisoning is almost as common in India at the present day as it was in Europe during the Middle Ages. The annual reports by the Government chemical examiners on such cases are eloquent of the necessity for something being done to put down the pernicious practice, and we are glad to note that two of the examiners—Surgeon-Captain J. F. Evans, M.B., and Assistant-Surgeon Chhni Lal Bose, M.B., F.C.S.—put the matter into definite shape for reform at the recent Indian Medical Congress. Their proposals are intended for Bengal, but if they are carried into effect they should, with emendations suited to different localities, be applicable to the whole Indian Empire. By a special measure they propose to control the sale of arsenic from its importation to its distribution in small quantities by retail. Without licences no one would be authorised to import or sell arsenic in any form, and a licence would also be required for the purchase and possession of the poison, or for its use in manufacture. This latter provision is too Utopian to carry out; administrative difficulties alone would defeat it, and for all practical purposes the provisions of the British Arsenic Act should suffice for



India. In regard to the sale of poisons generally Drs. Evans and Bose propose to modify existing Acts relating to the sale of drugs, so that the substances named in the following lists would be considered as poisons to be sold only by licensed persons:—

## SCHEDULE A.

## European Poisons.

1. Arsenic and its preparations.
2. Mercury and its preparations.
3. Antimonial preparations.
4. Strong ammonia.
5. Strong acids, such as concentrated nitric, sulphuric, hydrochloric, and oxalic.
6. Phosphorus.
7. Hydrocyanic acid and cyanides.
8. Opium, its alkaloids and preparations.
9. Belladonna, datura, hyoscyamus, their alkaloids and preparations.
10. Nux vomica, its alkaloids and preparations.
11. Aconite, its alkaloids and preparations.
12. Hydrate of chloral.
13. Chloroform.
14. Carbolic acid.
15. Cantharides and its preparations.

## SCHEDULE B.

## Indian Poisons.

1. White arsenic (Seiko, Sencul-khar).
2. Red arsenic or realgar (Monchhal).
3. Yellow arsenic or orpiment (Harital).
4. Corrosive sublimate (Raskarpura).
5. Aconite (Mitabishi).
6. Datura.
7. Hyoscyamus (Khorasani Ajwan).
8. Nux vomica bark or seed (Kuchila).
9. Plumbago rosea (Lalehitra).
10. Croton-seeds (Jaipal).
11. Yellow oleander (Kolika).
12. Cocculus indicus (Kaknari).
13. Nerium odoratum (Karabi).

Again, the authors make buying the subject of a licence, and however salutary that might be in the case of the most potent poisons, it would obviously be ridiculous to apply for a Government licence to buy, say, 1 oz. of strong ammonia, or an anna's worth of oxalic acid. Moreover, some of the conditions of sale are unnecessarily severe. For example, the authors propose:—

That every sale of poisons except on medical prescription, with certain exceptions relative to the practice of indigenous medicine, must be duly registered in the following manner:—(a) Name of purchaser; (b) residence of purchaser; (c) object of purchase; (d) authority for sale; (e) quantity sold; (f) date of sale; (g) signature of the seller; (h) signature of the purchaser.

That no person shall be permitted to buy and possess poisons who is unacquainted with their nature, and is not in a position to make proper arrangements for their safe custody and sale.

The first paragraph has apparently been drafted on the supposition that similar regulations obtain in the United Kingdom. Here it would be a great hindrance to trade if common poisons, such as the mineral and oxalic acids, had to be signed for at each time of purchase, and retailers would require a much higher rate of profit if such regulations were enforced. We suggest, therefore, that registrations of sale should be confined to the more potent poisons, those in common use being sold with due precautions as to labelling. The second of the quoted paragraphs is too absurd to be treated seriously, unless it be made to apply to retailers of poisons. The authors are apparently conscious of this, for in a later paragraph they suggest that a limited retail sale of certain of the poisons for domestic purposes may be permitted, but it would be better to separate the two classes at the outset.

Perhaps the greatest drawback to the regulation of the sale of poisons in India is the facility with which indigenous poisons may be gathered at the roadside. It appears, however, that this has been much exaggerated, and that there are but six common poisons of that class which the natives use—viz., aconite, nux vomica, opium, datura, oleander, and *Abrus precatorius* seeds. The first three are seldom gathered by the natives, as they prefer to purchase them at bazaars, and the last three are rarely used, except the *Abrus*

for cattle-poisoning. So the authors consider that this objection is not a serious obstacle against controlling the use, as well as the sale, of poisons. Finally, we note that the authors propose to extend the regulations to the sale of patent and proprietary medicines, and a system of registering the names and addresses of all licensed retailers is considered essential. On the latter point they are not sufficiently precise, for no standard of qualification is put forward except that of medical practitioners, and it would be absurd to require all retailers of poisons to be so registered. However, the authors give a reasonable basis to work upon, and it deserves to be considered in a proper way by the official and non-official classes of India who are concerned about the evils of the poison-trade.

## COUNTER-PRESCRIBING.

THE correspondent who rubbed so many counter-prescribers the wrong way and evoked the short but sharp discussion on counter-prescribing which has lately appeared in our pages, asked us last week to wind up the debate with an *ex cathedra* deliverance. We suppose all our comments are, in a sense, *ex cathedra*, but we are not aware that we have ever yet published any remarks on any topic whatever which come fairly within that description as it is commonly applied, and we certainly should not care to begin to be oracular on such a controversial topic as this. Moreover, *ex cathedra* deliverances would necessarily fall rather flat after that of "J. A. F." himself. In his clever letter, published on January 19 last, he informed us that there were counter-prescribers and counter-prescribers, and there was evidently no doubt in his mind that he, and only such as he, belonged to the approved category. He had no difficulty in determining when to advise, and when to refer patients to a medical man; and he roundly slated those poor chemists, not gifted with such perfect insight, whose limits of presumption do not coincide exactly with his own.

We confess, however, we were a little staggered at the story of the Welsh chemists' half-hour's work which, with one from a Scotch prescribing chemist, was the exciting cause of "J. A. F.'s" indignation. Woman comes for an emmenagogue mixture, another brings child with scarlet fever, next a woman for a draught for "after-pains," child with forehead cut, another with pea in her ear, a person in a fainting fit, and several who wanted their teeth extracted. This was given as a sample of a half-hour's work in "Welsh chemists'" shop in the morning. We are not sure that the record was intended to be taken quite seriously, but the astonishing part of the incident is that none of our correspondents who wrote professedly from the counter-prescriber's point of view seemed to regard this sort of work as very exceptional.

The law declares that it is illegal for anybody but a qualified medical man to judge of internal disease from symptoms, and to apply oneself to the relief or cure of the same by the administration of medicine—that is, acting as an apothecary. Coroners denounce chemists who prescribe almost every day, and medical witnesses try to glibly rebuke them whenever the opportunity occurs. Medical Defence Associations have been organised, and have flourished for longer or shorter periods, charged with the express duty of putting down the practice; and yet it is as lively—we had almost said as progressive—as ever. It is simply impossible to suppress it. It is no use to call upon the Pharmaceutical Society to bring their influence to bear against it, nor could any compact, as is sometimes suggested—for doctors to give up dispensing if chemists would discontinue prescribing—be enforced. How could chemists alone among human



ented from listening to stories of coughs and  
s, or be prohibited from giving information  
gs they sell? And if a majority of them  
ke terms involving an abandonment of their  
to advise their neighbours, how could these  
and the minority? The spirit of modern legislation is all  
against such coercion. The section in the Apothecaries Act  
of 1815 is the only bit of statutory prohibition in existence,  
and that was not intended to apply to chemists in its  
inception. The more modern Medical Acts only aim at  
penalising any false assumption of qualification, and that is  
all they have the right or the power to do.

To bring about a more satisfactory condition there must  
be more mutual association and respect between medical  
men and pharmacists. The former must give up their pre-  
tension of a sort of moral right to a toll on all bodily dis-  
orders; and the latter, except in rare instances, will come to  
see that it is no more to their own interest than it can be to  
that of their customers that they should undertake the medical  
treatment of dangerous or difficult cases, however naturally  
gifted they may conceive themselves to be.

#### CHICAGO MEATS AND EXTRACTS OF MEAT.

The *Times* of Monday last publishes a statement "com-  
municated to us" anonymously, but the accuracy of which  
we should think they have taken proper means to verify, in  
reference to the methods of preparing and packing meats at  
Chicago for export to England. Inspectors, it appears, are  
placed in every slaughterhouse, whose duty it is to con-  
demn any diseased animal. When a beast is condemned  
the inspector

sees it killed, skinned, cut up, and carted to what is termed  
"the tank room," where it is supposed to go through a  
process of steaming, after which it becomes "fertilizer  
stock." The tongue, however, is apt to be overlooked, as  
also the fat taken from inside the diseased animal. The  
tongue is thrown in with others, smoked, canned, and sent  
into the export trade. The fat is used as a source of "oleo,"  
and the diseased meat is put into a clean tank, the lid of  
which is screwed on, preparatory to turning in the steam, by  
which the destruction is supposed to be completed. But,  
directly the inspector has returned to the slaughterhouse,  
the lid is taken off, and, as rapidly as hands can do it, the  
condemned meat is lifted out, carted to the chill-rooms, and  
mixed with other stock. Certain circumstances incidental  
to the preparation of a so-called "extract of beef" are  
almost too revolting for publication. The concoction is  
offered to the public in dainty jars, but is made from the  
sweepings and drainings of the refuse from the canning  
rooms and cellars, and is thus something very different  
from the luscious extract of "choice cuts of beef" which the  
consumer may innocently think he purchases. The room in  
which this delectable compound is prepared is described as  
containing at times a "typhoid atmosphere." "The smell,"  
says the correspondent, "sickened me completely. The  
surroundings of the room were filthy. There were several  
cans lying around containing the extract in its crude state,  
and several trucks containing the liquid extract of beef.  
Whilst standing there, two fully-developed rats that had  
fallen into one of these cans of extract and had been  
drowned were pulled out by the man in charge of this de-  
partment, just previous to using the contents. How long  
they had been there cannot be proved, but the fact remains  
that decomposition had already set in, and the skins and  
hair were leaving the bodies, and this is an everyday  
occurrence."

We have seen extract of meat made in Chicago, and the  
conditions were not of the revolting character mentioned by  
the *Times* correspondent, whose remarks probably apply to  
some small factory in the stockyards. The principal  
factories are visited by crowds of people daily under special  
corps of guides, and as all departments are visited, it is  
difficult to understand how such conditions as the *Times*  
correspondent describes can obtain there.

#### PUZZLED BY THE 3x.

A correspondent of the *Scarborough Post* informed the  
readers of that paper last week that "two pilules of arsenicum  
3x, taken twice a day" was a good preventive-medicine in  
these influenza times. Whereupon in rushes "G. Sheldrake,"  
who, we are told, is a retired chemist, to inform the public  
that "arsenic is a very dangerous poison, and should  
never be administered except under the supervision of a  
medical man. The 'two pilules of arsenicum 3x,' in  
plain English," he said, "meant four arsenic pills weighing  
1½ oz. each, which is exactly equal to two gross of  
the ordinary-sized pill—a very nice dose for one day.  
There is not a shadow of a doubt," he added, "that the pre-  
scription would prevent influenza, but an inquest would  
follow a few hours after taking the dose."—Mr. Sheldrake  
evidently imagined the 3x meant ten drachms.

#### ONLY KNOWS DRACHMS.

The *Birmingham Daily Post* provides for its readers a  
collection of prescriptions for influenza, which it quotes  
from the *Westminster Gazette*; but, unfortunately, the  
editor's studies of weights and measures appear to be  
strictly limited to drachms. All through he quotes no other  
quantity. The result is comical—not to say risky. Here,  
for instance, is how he prints a prescription of Dr. Robson  
Roose's, who gave it a few years ago to a patient for a  
preventive mixture:—

|                        |    |    |    |    |           |
|------------------------|----|----|----|----|-----------|
| R—Quinæ disulph.       | .. | .. | .. | .. | dr. xii.  |
| Pot. bromide ..        | .. | .. | .. | .. | dr. i.ss. |
| Acid. hydrobromic dil. | .. | .. | .. | .. | dr. i.ss. |
| Tr. aurant.            | .. | .. | .. | .. | dr. ss.   |
| Aquam..                | .. | .. | .. | .. | dr. viii. |

There are no limits to what these daily newspaper men will  
write about, and not many to their ignorance, when they  
depart from the easy business of imperial politics.

#### Student-studies.

##### II.

THE Inquisitive Student wants to know all about it.  
Praiseworthy as this may be in moderation, it is posi-  
tively maddening in excess. A state of everlasting inquiry  
is a nervous disease, and should be treated as such. It  
comes from a mental kink that is sometimes hereditary,  
often acquired. When the former, it shows itself early.  
The one-year-old who is going to develop into an Inquisitive  
Student looks round at things with large eyes. "Hullo!"  
he says to himself, "what do they want to feed me from a  
beastly bottle for? I got along well enough in the old days.  
Nice world I'm in! Can't see the use of it! What's this  
sticking out of the end of my foot? Wonder if it's good to  
eat! There's that nurse of mine stopping me again—won't  
let me eat my big toe! Booh! Nearly starves me, too.  
Tries to get me to eat food out of a tin. Wonder what's at  
the bottom of the tin! Bah! Nurse won't let me empty the  
stuff on the carpet! Sha'n't play!"

As soon as he can talk he questions his nurse, and, having  
pumped her dry, assails first his governess and then his  
schoolmaster. At school he joins a chemistry class, and  
the subtle fascination of the subject weaves a potent spell  
over him. There is something mystic about the science  
that attracts him, and he drops the sheet anchor of his  
life. In the holidays he buys a penny "Child's Guide to  
Chemical Knowledge," all pretty experiments and coloured  
fires, with a bilious wizard in a nightshirt on the cover.  
The wizard is in the act of waving a magic wand  
over a retort and a cloud of smoke, and this catches  
the youthful fancy, and is understudied with the



paternal walking-stick and a carafe. He reads the book from cover to cover voraciously, and saves up a shilling to buy a box of "chemistry." He revels in the experiments that are successful, and writes to the maker to know why the remainder were not so. He has half-an-hour's conversation with the local chemist over the purchase



of two test-tubes and a pennyworth of chlorate of potash, and wants a lecture on the catalytic action of black oxide of manganese thrown in. He goes home, and converts his washing-stand into a working-bench, and quarrels violently with the tidy chambermaid who sweeps his mess into a dustpan. He burns green fire in the kitchen for the benefit of the cook, but the cook is not appreciative, and complains to his father. She reports that "her bread-board is that charred she can't use it again by no means, and the kitchen smells that bad she can't bear to stop in it; and if Master Harry is agoing to carry on like that, she knows what she shall do—that she does." And good cooks being few and far between, Master Harry finds out that his father's hand is hard and heavy.

He retires into his bedroom by himself, and, placing two drops of vinegar on a penny, meditates on the hardness of his lot. When the coin has turned bluish-green he wraps it in a sheet of fool-cap, labels it "Poison" in large type, and puts it carefully away out of the reach of his little brother, who is not old enough to study chemistry. When the time comes for him to select his calling, the weird glamour of the chemist's shop enthralls him. The fierce light that beats upon the carboys attracts many moths, and he is of them.

Hence his presence among the balances, reagents, and other experimental varieties of a school of pharmacy, where, having paid his sessional fee for the privilege of obtaining information, he proceeds to absorb enough tutorial attention for a dozen men. He asks everything, forgets everything. That is one of the queerest things about him—his brain is merely receptive, not retentive. He worries his world to death for facts, but takes no pains to assimilate them when he has got them. He suffers from a sort of mental diarrhoea. He will spare no pains to find out something that he really wants to know. He will put himself to great inconvenience to enable him to run over to the British Museum to look up something in the library, but, arrived there, either forgets what he came for or else, having accomplished his mission, forgets the result of his quest before he is half-way home. He seems to be always standing in a basket and trying to raise himself by tugging at the handles.

## Messrs. Allen & Hanburys' Price-Protection Scheme.

AN OBJECTION TO IT.

MESSRS. S. MAW, SON & THOMPSON, as is generally known, have hitherto objected to sign agreements dictating terms on which proprietary articles may be sold. In view of Messrs. Allen & Hanburys' announcement, a representative of THE CHEMIST AND DRUGGIST called at 11 Aldersgate Street to ascertain how that firm regarded it.

"It is practically impossible," said Mr. Thompson, "for us to carry out the scheme. We have some ten thousand accounts on our books, and any one of our customers—we cannot tell which—may any day order half a dozen, or a quarter of a dozen, or perhaps a single packet, of one of Messrs. Allen & Hanburys' specialities. We must get the whole of our customers to sign the agreement, and this is impracticable, for a large number of them never have bought such goods, and never will, or we must watch our orders every day. The clerical labour involved would cost us far more than the possible profit we could ever get from the business. No one would assist more readily than ourselves in promoting the interests of chemists and druggists, if we could see our way; but we have no faith in these schemes, and, moreover, we object to them on principle."

"What is the principle involved, Mr. Thompson?"

"Well, it would be too long to go into the whole question as a matter of economics. Briefly, it seems to us that when a person has bought an article it is not justifiable to dictate to him what he shall do with it. Of course, Messrs. Allen & Hanburys are justified in refusing to sell to any particular firm—ourselves or anybody else. But the principle on which we decline to sign these documents is—what we think the very reasonable one—that we cannot see our way to fulfil the conditions. Mr. Maw has always laid it down as a rule that he will never sign any contract which he cannot religiously carry out. We shall, of course, in no way try to circumvent the plan. If Messrs. Allen & Hanburys refuse to supply us, we shall have to simply decline to fill orders for any of their goods, as we now have to do when Elliman's embrocation is ordered from us. It will probably put us to some little inconvenience, but not to much loss. The whole business in proprietary articles is of very little value indeed at the rates to which they are now cut."

Since the above interview Messrs. S. Maw, Son & Thompson have sent us the following formal statement of their objections to signing the agreement which Messrs. Allen & Hanburys have drafted. They say:—

We do not see our way to signing the form of agreement issued to the wholesale trade by Messrs. Allen & Hanburys for the following reasons:—

Because the system they are adopting is, in our opinion, a restriction upon trade, and an unwarrantable interference with legitimate business.

Because we should bind ourselves therein not to execute orders from any of our customers for the specialities of Messrs. A. & H., unless they previously signed an agreement of which we know that many of them disapprove, and we should thus probably offend some of our oldest and best friends.

Because the cutting minimum prices fixed by Messrs. A. & H., which all cutters will adopt, do not allow sufficient margin to pay working business expenses, much less leave a living profit, either to the wholesale or retail trade.

Because we will not encourage a scheme which we consider unreasonable and impracticable, and which, if generally adopted by makers of proprietary articles, would entail such an amount of trouble and expense as would render the satisfactory conduct of that branch of our business almost impossible.

Because we are convinced that Messrs. Allen & Hanburys' project will not effect the object for which it is professedly intended—viz., the prevention of cutting.

In the list of their specialities recently issued (first-class preparations which should yield a good profit to the retail trade), Messrs. Allen & Hanburys have themselves fixed



minimum retail prices at which they may be sold—cutting figures, which cannot satisfy non-cutters, who are by far the greater portion of the trade.

Cutting wholesale houses, for their own convenience, will readily sign agreements such as that of Messrs. Allen & Hanburys, but it will not alter their mode of doing business. They will still persist in the systematic cutting of other goods, selling leading articles—such as Cockle's and Beecham's pills, Steedman's powders, &c.—at a gross profit of 2½ per cent., or even less, which cannot pay ordinary trade expenses, and must therefore be done at a loss.

We, unfortunately in this department, which is a small one, have in a measure to regulate our prices by those of the leading patent-medicine houses, and, to follow suit, we keep these goods only as a matter of accommodation to our customers; but we cannot expect them to pay us 9s. per dozen for articles which they can obtain elsewhere for 8s. 9d.

#### WHAT MESSRS. ALLEN & HANBURY SAY.

Our representative had the opportunity of a few minutes' conversation on the scheme with Mr. Frederick Hanbury on Tuesday.

"We should like to have a talk with you about it a little later on," said that gentleman, "but it is almost too early yet to say anything about the success of our scheme. We have had a great number of letters from chemists cordially approving of our new departure. The only criticism we have had on it from retailers is that we have not gone far enough. Some correspondents think we have fixed the minimum prices too low. But it should be remembered that there are great difficulties at the beginning in establishing any such scheme as this. We are, at least, stopping the extreme cutting."

"What is the extremest cutting of your goods you have known?"

"Well, we have known our Food sold at 8½d.; now the minimum is 9½d., and no advance on the wholesale cost. But, of course, no one is obliged to sell at the minimum, and very few need do so. We always get 1s. 4d. here for our one-and-fourpenny bottles of cod-liver oil, and so do a good many chemists. It is only in rare cases where the minimum of 1s. need be reached."

"Are the wholesale dealers equally satisfied?"

"We think they will be generally. Of course, there are some who will not sign, and these will simply not get the goods. We have refused orders already. The scheme can only be carried out strictly, or not at all."

"And you are resolved to carry it out strictly?"

"Oh, certainly!"

## New Companies and Company News.

**O'HARA MATTHEWS (LIMITED).**—Capital 6,000l., in 1l. shares. Objects: To enter into an agreement with McNeill S. O'Hara, paint-manufacturer, for the purchase of his business, and to carry on the business of paint, colour, varnish, and chemical manufacturers and merchants, oil-boilers, &c. The first subscribers (who each take one share) are:—J. Laurence, 44 Holland Road, W., solicitor; E. W. Evelyn, 47 King Square, E.C., clerk; A. Jordan, 27 Gracechurch Street, E.C., clerk; W. A. Black, 21 Prideaux Road, S.W., clerk; R. C. Allan, 62 Oglander Road, East Dulwich, S.E., shorthand-writer; M. S. O'Hara, Phoenix Wharf, Millwall, E., paint-manufacturer; W. J. Hardy, 55 Gloucester Road, N., merchant. The regulations of Table "A" mainly apply. McNeill S. O'Hara is the first and sole director.

**FIELD, BREEZE & CO. (LIMITED).**—Capital 2,000l., in 1l. shares (of which 50 are 15l. per cent. cumulative preference). Objects: To acquire and carry on the business of a chemist and druggist, carried on by John A. E. Breeze, at 70 Oxtan Road, and 1A Midland Street, Birkenhead, Cheshire, as "H. E. Field" (formerly belonging to Harry E. Field, now deceased), and to enter into an agreement for the purpose. The first subscribers (who each take one share) are:—Miss E. M. L. Field, 56 Milton Road, Birkenhead; Mrs. E. J. Breeze, 22 Dingle Road, Birkenhead; Harry E. Field, same address,

dental student; J. A. E. Breeze, 22 Dingle Road, Birkenhead, chemist; S. Jones, 37 Beech Road, Birkenhead, printer; Mrs. F. E. Jones, same address. The first four subscribers are to act as directors until others are appointed. Remuneration, as the company may decide. The vendor is the managing director. Registered office, 70 Oxtan Road, Birkenhead.

**SOUTH AFRICAN SALTPETRE FIELDS (LIMITED).**—Capital 750,000l., in 1l. shares. Objects: To enter into an agreement with James H. King to examine, prospect, explore, and survey mines, lands, and other property; to search for minerals, metals, precious stones, and other products, and particularly for nitrate of potassium; and to work, manufacture, refine, and deal in and with nitriferous earth, nitrate of potash, nitrate of soda, salts, chlorides, &c. The first subscribers (who each take one share) are:—J. F. Forde, 17 Victoria Street, S.W., engineer; A. Fraser, Westerfield House, near Ipswich, manufacturer; A. Bull, West Marden Hall, Eversworth, Hants, merchant; H. P. Barraud, 7 St. Mildred's Court, E.C., solicitor; J. B. Chalmers, The Elms, Highgate Road, N.W., gentleman; A. Jackson, 3 Copthall Buildings, E.C., stockbroker; E. H. Jupp, 7 St. Mildred's Court, E.C., solicitor. The first directors (to number not fewer than four) are to be appointed by the subscribers. Qualification, 200l. Remuneration, 2,500l. per annum, divisible.

**WEST RIDING CANDLE COMPANY (LIMITED).**—Capital 5,000l., in 1l. shares. Objects: To enter into an agreement with a company of the same name and Richard Sands, its liquidator, and to carry on the business of candle and soap manufacturers, tallow-chandlers, candle-wick makers, fire-lighter manufacturers, chemists, oil and colour manufacturers and merchants, &c. The first subscribers (who each take one share) are:—T. Wigfield, 3 Collegiate Terrace, Rotherham, secretary; W. Wigfield, 42 Alma Road, Rotherham, managing director; Miss Eliza Swain, Miss M. A. Wigfield, Miss E. Wigfield, all of 3 Collegiate Terrace, Rotherham; G. H. Lodge, 2 South Terrace, Rotherham, physician and surgeon; R. Sands, St. Peter's Church Walk, Nottingham, chartered accountant. The first directors (to number not less than three nor more than five) are Thomas Wigfield, Walter Wigfield, George H. Lodge, and Allan T. Cocking. Qualification, 100l. Remuneration, one guinea each for every attendance at a board meeting.

**SHARON CHEMICAL COMPANY (LIMITED).**—At the fourth ordinary meeting of the Sharon Chemical Company (Limited), held on March 5, at the Royal Hotel, Derby, a final dividend of 1½ per cent was announced on the called-up ordinary capital of the company, to be paid on March 31, making with the interim dividends already paid 6½ per cent. for 1894. Messrs. Watson, Sowter & Co. were re-appointed auditors at the same remuneration as last year.

**BAYLASS DRUG COMPANY (LIMITED).**—A petition was presented on February 21 by William D. Baylass for the winding-up of this company by the County Court of Devonshire, and the hearing has been fixed for March 14. The company was registered on December 27, 1893, with a capital of 2,000l. in 1l. shares, to acquire and carry on the business of a chemist and druggist carried on by Thomas H. Ness, at 50 Union Street, Torquay, Devon. The last return shows that 1,006 shares have been taken up and paid for in full, and of these 1,000 are held by the petitioning shareholder, the remainder holding one share each. Registered office, 50 Union Street, Torquay, Devon.

The report of Price's Patent Candle Company (Limited) states that the profit for 1894 amounted to 69,594l. against 64,860l., and, after adding in 8,310l. carried forward, there was a disposable sum of 77,905l., from which must be deducted the dividend of 10s. per share paid in September. The directors now propose to write off the usual 12,500l. for depreciation of fixed properties and plant, add 5,000l. to the reserve fund, pay a dividend of 17s. 6d. per share, and carry forward 8,843l. An opportunity having occurred during the year of purchasing the goodwill and trade-marks of Ogley & Co. (Limited), in liquidation, at a reasonable price, the directors made a purchase out of revenue.

**BRITON FERRY CHEMICAL COMPANY.**—The ninth annual meeting of this company was held in London on Thursday



under the presidency of Mr. E. A. Pontifex (chairman of the company), who stated they had sold during the past year 20,000 tons of acid, as against 16,657 tons in 1893; and the cost of its manufacture had been materially reduced—namely, from 13s. 7d. per ton in 1893 to 11s. 2d. in 1894. The fall in the prices obtained for the acid in 1894 as compared with 1893 was 3s. 3d. per ton, being equal to 3,200% against 1894; but the actual result of the year's work showed a profit of 732% above that of the previous year. It was gratifying, therefore, to be able to declare the same dividend as last year—namely, 10 per cent.—adding 1,000% each to the reserve fund and the chamber and columns renewal account, making them 4,000% and 12,000% respectively.

**CALDER CHEMICAL COMPANY (LIMITED).**—The liquidator of this company has called a final meeting for April 5, when the accounts will be presented, and the shareholders will decide what shall be done with the books and accounts of the company. The incorporation took place on January 18, 1875, when the objects were declared to be the acquisition and carrying on of the business of chemical manufacturers then owned by Messrs. Holt Brothers & Browne, of Whitwood, in the West Riding of York. At present the capital is 10,250% in 50% shares, and 200 of these have been taken up and fully paid for. Reuben Hunt (97 shares) and Frederick T. Hunt (98), both chemical manufacturers, of Castleford, are the principal shareholders. The resolution for voluntarily liquidating was passed on January 22, 1894, when Anthony A. Clarkson was appointed the liquidator.

**OXYGEN-PRODUCING SYNDICATE (LIMITED).**—This company is at present in voluntary liquidation, and on February 20 a petition was presented by Asbmore, Benson, Pease & Co. (Limited), of the Parkfield Works, Stockton-on-Tees, resulting in an order for the winding-up to be continued subject to the supervision of the Court. The company was incorporated on February 20, 1892, with a capital of 60,000% in 1% shares, to acquire and develop patents No. 3,034 of 1891, for a "new process for producing oxygen gas," and No. 10,667 of 1891, for "a new self-acting apparatus for the automatic production of oxygen," and to carry on the business of manufacturers of oxygen and practical chemists. All the shares have been taken up, and 42,500 have been issued as fully paid. In consequence of the full amount being called on the rest, 16,836% 15s. has been received, leaving 663% 5s. in arrears. The shareholders include a chemical manufacturer, two druggists, a public analyst, and Henry Weymersch, chemist, of 163 East Dulwich Grove, S.E., with 2,713 shares. The winding-up resolution was passed on December 14 last. Registered office, 52 Temple Chambers, E.C.

**BLEASDALE (LIMITED), YORK.**—The first general meeting of the shareholders of this company was held on March 1, at the North-Eastern Hotel, York, Mr. Councillor Wilson, J.P., of Harrogate (chairman of the company) presiding. The annual report, which was taken as read, stated that the directors entered into full possession of the business on October 2, 1894, and that the trade of the company had shown a steady increase, and the directors recommended a dividend at the rate of 6½ per cent. per annum, free of income-tax, and that a balance of 1,408% 19s. 6d. be carried forward. The sum of 496% 13s. 3d. had been written off for preliminary expenses. In moving the adoption of the report and balance sheet, the chairman said the directors had every reason to be satisfied with the business so far as it had been carried on, and looked forward to further development in the future. They did not want to declare a "flash in the pan" dividend and live to regret it afterwards. It was better to commence with a reasonable dividend and place the business on a firm and substantial basis. The report was adopted. Mr. A. Humphreys was re-elected a director, and Messrs. Pickard and Crosland, Leeds, were re-appointed as auditors.

## Trade Notes.

**MESSRS. W. J. BUSH & Co.** recommend their French eucalyptus globulus oil as containing 65 per cent. of eucalyptol.

**THE LOFODEN COD-LIVER OIL COMPANY, 133 Minories, E.C.,** send us a sample of the present season's "North Star"

brand of cod-liver oil. It is a pretty, pale oil, and one which buyers would do well to sample.

**MESSRS. E. BEEFITT & Co. (LIMITED)** have issued a new illustrated chemists' and druggists' prices current of bottles and glassware.

**MESSRS. R. W. GREEFF & Co.,** of 3 Eastcheap, E.C., have been appointed sole agents for the saccharin manufactured by Messrs. Gilliard, P. Monnet, & Cartier, of Lyons.

The approach of Easter generally awakens liberal thoughts with Messrs. Blondeau & Cie., and they this year submit an offer for special discounts on orders for their goods, of which a lengthy list with clear indication of prices is given in this issue.

**THE BOVRIL COMPANY** report that the influenza epidemic has occasioned an enormous strain on their manufacturing facilities, but that they keep up with orders. They strongly recommend chemists to make a push with the invalid bovril.

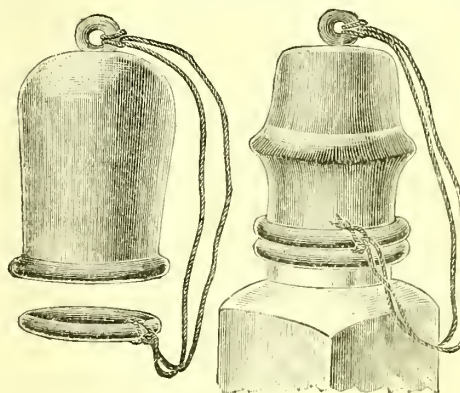
**MESSRS. ALLEN & HANBURYS** make an announcement this week respecting their cresolene and cafe vierge, correcting the prices quoted as minimum retail prices in their anti-cutting circular. The correction will be found among the advertisements this week.

We omitted to mention in the report of our interview with Mr. Payne (Messrs. Faulding & Co.) that the firm have established a London office at 9 South Street, Finsbury, E.C., where a stock of eucalyptus oil and eucalyptol is carried for the execution of home orders.

**THE THORNTON-PICKARD MANUFACTURING COMPANY,** Altrincham, have issued their catalogue for the coming season. It is one which all chemists who do a photographic trade should write for. It contains some excellent examples of the work done by the Thornton-Pickard shutter, and by showing these to customers there will be little difficulty in doing business in shutters and T.-P. lenses.

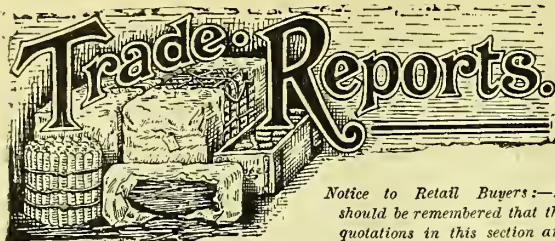
THOSE chemists who missed reading Messrs. Fletcher, Fletcher & Co.'s amusing advertisement on page iii of our last issue should turn up that number again. It will repay perusal. We are reminded of it by the receipt of one of the Miniature Dispensaries which they offer to chemists during the present month. It is a well-fitted case, containing one dozen stoppered bottles of concentrated pharmaceutical preparations, all of which will be found useful.

**MESSRS. B. BIRNBAUM & SON (LIMITED),** of Wick Lane Rubber-works, Bow, E., have introduced a new bottle-cap, which we illustrate in the accompanying engraving. The cap is made of red rubber, to which a rubber ring is attached by a silk cord. The uses of such a cap readily suggest themselves—for example, one of the caps will thoroughly secure



a stopper in a phial, and prevent the evaporation of volatile liquid. The cap should be useful for bottles of poisons, its very presence sufficing to show that there is something unusual in the bottle. The caps give an elegant finish, and may be used with corked or stoppered bottles, and for dispensed medicines as well as proprietary articles. We understand that the caps have been used in ships' medicine-chests with satisfaction.





Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large

quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., March 7.

ALTHOUGH the obstacle to transport caused by the ice-bound river has now been removed, there is no indication of any general improvement in either the home or the export trade in drugs and chemicals. A few articles, such as eucalyptus oil, cubebs, quinine, cocaine, caffeine, glycerine, cod-liver oil, civet, hyposulphite of soda, and sulphur, have moved upwards, and in some of them large transactions have taken place, but in every instance these improvements are traceable to special causes which have nothing to do with a general revival of trade. On the other hand, many staple articles in the drug and chemical trades continue their course of slow depreciation, with the result that everybody is afraid of buying either for stock or speculation. The frequency with which so-called "Convention" articles have suddenly collapsed of late has also had a very unfavourable influence upon business in these commodities, for after such falls as have taken place in salicylates, in bismuth salts, and in other syndicate drugs, no one will risk more than he can help in any of them, in spite of the "falling clause," which applies to most of these goods. Another instance of a convention-breakage occurred this week in acetic acid, of which the price has been lowered by about 15 per cent. The week's auctions have mostly been devoid of special features. At the drug-sales to-day Cape aloes was very firm; Sumatra benzoin less tightly held; galangal, raw camphor, and orange-peel much easier; cardamoms lower; ergot of rye, jalap, and rhubarb dull; musk, bees-wax, and vanilla steady; cubebs and eucalyptus oil dealer. One broker slaughtered a parcel of Rio ipecacuanha, and Cartagena root was also lower. Kola-nuts are rising. Tinnevely senna is rather dearer. An old parcel of cod-liver oil sold cheaply, but the fishing reports remain alarmist. Stavesacre-seeds are at famine prices. All sarsaparillas are low in price; Mexican root is much cheaper. Turmeric is also unusually low. The high vanilla prices show no further improvement. Quicksilver and quinine keep steady. Opium is unchanged. In several French essential oils advances are expected. Refined glycerine is slowly moving upwards—unfortunately, we are at the end of the consuming season. Areca-nuts and liquorice-root of common quality are abnormally cheap. The Bank-rate remains at 2 per cent. Bar-silver is quoted at 27½*d.* per oz. The foreign exchanges are as follows:—Yokohama, 1*s* 11¾*d.*; Shanghai (four months), 2*s* 9¼*d.*; Hong-Kong (four months), 1*s* 11¾*d.*; New York, 4,87¾; Rio, 9¼*d.*; Valparaiso, 16¼*d.*

#### The Liverpool Drug-market.

Our correspondent, writing on March 6, says that the sales of *Gum acacia* sorts have been of a retail character at prices rather favouring buyers—28*s*. cwt. was paid for *East Indian Amrad*; some inquiry has been experienced for *Brazilian*, which is obtainable at about 20*s*. to 21*s*. cwt. *Scammony root* has been in good demand—several tons changing hands at 27*s* 6*d.* cwt. to 30*s*., and now holders only offer sparingly at 35*s*. cwt. *Carnauba wax* has met with ready buyers, and grey has realised 115*s*. and fine yellow 137*s*. to 138*s*. cwt.

*Anise*: Forty bags Chilian were sold at 23*s*., and more might be had at the price, though holders now talk of more money. *Cream of Tartar* attracts little attention, and crystals first white are slow at 64*s*. to 65*s*. *Cochineal*: 25 bags black Teneriffe just arrived have been sold at current rates. *Cascarilla*: 63 packages offered at auction, two bags siftings sold at 20*s*., 2 bags good 47*s* 6*d.*, and 3 bags 50*s*. cwt. The balance is of ordinary quality, and is held for 45*s*. cwt. *Kola nuts*: The small arrivals have been picked up at 1*s* 1*d.* to 1*s* 1½*d.* lb.

#### Tyne Chemical Report.

Our correspondent writes on Wednesday:—"There is no new feature of interest in connection with the Tyne market to report. Chemicals generally are in poor demand, and prices weak. *Hyposulphite of soda*, however, may be taken as an exception, inquiries and orders for this product being numerous both for home consumption and export, at prices similar to those of last week. *Sulphur* also continues scarce, and is in good demand at 4*l.* per ton Tyne. *Chlorate of potash* is weaker, and there is only a moderate inquiry. It is now offered at 4½*d.* per lb. *Yellow Prussiate* is depressed at 9½*d.* *Soda-ash* and *Caus'ic soda* are unchanged and weak. For *Bleaching-powder* there has been a moderate demand, but at unchanged values. *Chloride of barium* and *Blanc fixe* are firm and in fair request. *Sulphate of alumina* steady.

#### The Amsterdam Market.

We hear from our Amsterdam correspondent that there is a fairly large supply of *Cajuput oil* in second-hands, in addition to which a consignment of 5,000 bottles was recently imported. This is held for 2*s* per bottle, much above the current value. The demand is dull. *Fine Cassia fistula* keeps in good request, but for dull and medium grades there is no demand. No fresh sales have been made public. In *Cubebs* transactions of considerable importance have taken place lately, mostly it is thought for *bona fide* consumption. The sales amount to about 120 bales cultivated and coarse-berries at prices ranging at the equivalent of from 30*s*. to 35*s*. per cwt. The arrivals have been small lately, and holders show little disposition to sell at the current low figures. In *Benzoin gum* the feeling is rather quieter. A parcel of 120 boxes has been landed, and will be offered for sale shortly, along with 213 boxes of recent importation. Seventy tons of Van Houten's *Cocoa-butter* were sold by auction on March 5, realising from 63 to 63.5*c.* (average 63.17*c.*) per ½-kilo. The feeling was very quiet.

#### The American Market.

Our correspondent, writing from New York under date of February 27, states that the drug-market in that centre shows but few features of interest. Being near the close of the month there is the usual curtailment of orders, due to a desire to carry them over into the succeeding month, thus gaining more time on the bills. *Quinine* has sold fairly well during the week for manufacturing purposes at 23½*c.* cash, and 24*c.* regular terms, though in some cases 23½*c.* regular terms, has been accepted for small lots. *Alcohol* has advanced to \$2.36*c.* to \$2.40*c.* per gallon. Much interest has been aroused by the litigation as to the Trust Stock. The *Bismuth salts* have been reduced 10*c.* per lb. throughout the whole list, in sympathy with the recent decline in the price of the metal. *Coffeine* continues in very scanty supply and in good demand. Small quantities are quoted at \$5.10*c.* to \$5.25*c.*, but round lots cannot be had at any price. *Cocaine* is also in a very firm position, the supplies in Hamburg being reported under close control, while there is very little crude reported in stock on the west coast of South America. *Norwegian cod-liver oil* continues firm at \$33 to \$45 as to quality and holder, while still higher prices are predicted. Some *East Indian cuttle-fish bone* is being offered to arrive at 3*c.* Trieste has sold in a small way at 2½*c.* *Spermaceti* has sold for export in the interval for 30*c.*, and has advanced to 31*c.* A further small exportation of *Balsam Peru* is reported. The spot price ranges from \$2.25*c.* to \$2.35*c.*, no large lots being available. It is reported that 10 tons of *Cascara sagrada* have been destroyed by fire in California. On the spot 4*c.* to 4½*c.* is wanted, the price not having been affected. A better export inquiry for *Peppermint oil* is reported, with sales of bulk oil at \$1.85*c.* *Mexican sarsaparilla* is easier, and



jobbers will now accept 6 $\frac{3}{4}$ c. for Tuxpan *Chicle* is scarce and firm at 36c. *Camphor* is quite strong, and one maker has announced an advance of 1c. on refined.

**ACID (ACETIC).**—The combined manufacturers who control the bulk of the output of this important article have announced a considerable reduction in the price. Their chief reason for this action has been, no doubt, the necessity of keeping at arm's length the "outside" competition which is threatening from various quarters. The following list shows the old and revised quotations:—

| Strength           | Old Price per Cwt. for a Minimum of 10 Cwts. | New Prices per Cwt.                    |                                 |                 |
|--------------------|----------------------------------------------|----------------------------------------|---------------------------------|-----------------|
|                    |                                              | Wholesale Lots under $\frac{1}{2}$ Ton | $\frac{1}{2}$ -Ton Lots or more | 4-Ton Contracts |
| 30 p.c. (1-7) ..   | 16 3                                         | 15 3                                   | 14 9                            | 14 3            |
| 33 " (B.P.) ..     | 17 6                                         | 16 3                                   | 16 -                            | 15 3            |
| 40 " " " ..        | 29 -                                         | 26 9                                   | 26 -                            | 24 9            |
| 70 " " " ..        | 33 3                                         | 30 6                                   | 29 9                            | 28 3            |
| 80 " " " ..        | 37 6                                         | 34 6                                   | 33 3                            | 31 9            |
| 90 " " " ..        | 44 3                                         | 38 3                                   | 37 -                            | 35 3            |
| 99-100 " (glacial) | 48 9                                         | 42 3                                   | 40 9                            | 38 9            |

It appears that the combined manufacturers show no anxiety to sell at the reduced quotations.

**ACID (CITRIC).**—Firmly held, but, at present, unchanged in price, at 1s. 1 $\frac{3}{4}$ d. to 1s. 2d. per lb., according to quality.

**ACID (TARTARIC).**—*English* brands are quoted at from 10 $\frac{1}{2}$ d. to 11d. per lb., *foreign* at from 10 $\frac{1}{4}$ d. to 10 $\frac{3}{4}$ d. per lb. The market is fairly steady.

**ALOES**—*Cape* aloes is not very plentiful, and as the supplies of the new crop do not usually arrive until early in June there is some prospect that prices may still go higher. At to-day's auctions 24 boxes were offered, of which 17 sold at very firm rates: good bright hard 23s. to 23s. 6d., ordinary drossy 17s. *Curaçao* aloes is in small supply and selling at full prices for good qualities; 42 packages found buyers at from 57s. to 45s for good bright to brown liver, and from 19s. down to 13s. per cwt. for dark livery to common. Of *East Indian* aloes 16 kegs fair hard Socotrine realised 60s. per cwt. A parcel of 40 boxes rubbish, offered without the guarantee that it was aloes, was bought in.

**AMBERGRIS.**—Rather dull of sale. About 90 oz. were offered to-day, of which 16 sold at 39s. per oz. for common quality.

**ANNATTO SEED.**—Firmly held. Privately sales of good Madras have been made at 4 $\frac{1}{2}$ d. per lb. At auction 4 bags were bought in at that figure.

**ARECA-NUTS** remain very cheap; 17 bags oil-damaged nuts sold, without reserve, at 8s. 6d. per cwt.

**BALSAM (PERU).**—Good quality is held at 8s. 3d. per lb. Only 1 case was shown at sale, and bought in.

**BENZON.**—*Sumatra* gum was rather neglected at to-day's auctions, and of 146 cases shown only 10 sold at 7l. 10s. to 8l. per cwt. for *Sumatra* seconds, fair medium palish almonds false-packed tops and bottoms. For a fine lot, slightly false-packed, a bid of 10l. was refused. Of *Palembang* gum a few cases sold at 27s. per cwt., subject to approval for fair quality; for good gum 40s. is asked, a bid of 37s. being refused. Of *Siam* benzoin 22 cases were offered, all of which were bought in at from 12l. per cwt. downwards for fine hard brown almondy block.

**BUCHU.**—Neglected; 29 bales were offered to-day, and all bought in; fine bright green long leaves at 9d.; common brown ditto, of fair flavour, at 2d.; and good bright greenish round leaves at 3 $\frac{1}{4}$ d. per lb.

**CAFFEINE** is again somewhat firmer. The makers have sold at 15s. per lb. this week, but they have since withdrawn their quotations, and it is said that 16s. per oz. has been paid for a small quantity in second-hands.

**CALUMBA.**—Only 10 bags fair yellowish sorts were offered to-day. They sold at 10s. 6d. per cwt., indicating some improvement on the market.

**CAMPHOR (CRUDE).**—Quotations have tended lower since our last report, in spite of the statement which is being circulated that the exports from Japan last month were very small. To-day the quotation for *Japanese* camphor is nominally 105s. per cwt., c.i.f. terms, while *Chinese* camphor is variously quoted at from 93s. to 95s. per cwt., c.i.f. for March-April shipment. At auction 67 cases *Chinese* gum were offered, of which 17 sold, without reserve, at 92s. per cwt., reweights, a decline of about 10s. per cwt.

**CAMPHOR (REFINED).**—Twenty-six cases *Japanese* refined camphor in tablets were bought in to-day at 1s. 6d. per lb. For 2 packages *German* bells and tablets 1s. 4 $\frac{1}{4}$ d. per lb. is asked.

**CANNABIS INDICA.**—Plentiful, and obtainable at low rates—namely, from 2 $\frac{1}{2}$ d. to 2 $\frac{3}{4}$ d. for rather stalky to good greenish tops.

**CANTHARIDES.**—At auction to-day a parcel of 10 cases fair *Chinese* flies was said to be limited at 1s. 1 $\frac{1}{2}$ d. per lb. This seems to indicate a higher range of prices, but it is still possible to buy fair quality privately below 1s. per lb.

**CARDAMOMS.**—The supply to-day was fairly plentiful, consisting of 194 packages, of which 129 sold at a slight decline, averaging about 1d. per lb. The following prices were paid:—*Ceylon Mysore*, medium to bold, fine soft pale, 3s. 3d.; ditto, fairly pale, 2s. 7d. to 2s. 10d.; small to medium, good full palish, 2s. 2d. to 2s. 4d.; medium yellow, fair, from 2s. to 1s. 10d.; very small, fair yellow, 1s. 7d. to 1s. 9d.; medium, specky and brown, partly split and shelly, from 1s. 6d. down to 1s. 3d. per lb. *Ceylon Malabar*, fair pale round medium, 1s. 10d. to 1s. 11d.; small plump brownish, 1s. 6d. to 1s. 6 $\frac{1}{2}$ d.; small brown, partly split, and dull, 1s. 4d. to 1s. 5d. per lb. *Wild Ceylon*, in strong demand at high prices, fair pale medium 2s. 2d. to 2s. 4d., small ditto 1s. 1d. per lb. *Seeds* sold well at 2s. to 2s. 1d. per lb.

**CASCARA SAGRADA.**—Dull of sale. A lot of 53 bales good bright bark was bought in at 21s. per cwt. to-day.

**CINCHONA.**—At to-day's sales, out of 27 packages *Guayaquil* bark offered, 22 sold at low prices for ordinary qualities: Thin greyish brown quill, 7d.; fair grey, but damaged, 11d.; ordinary ditto, from 7d. down to 2d. per lb.; partly split quill, 6 $\frac{1}{2}$ d. per lb. An old parcel of 40 bales common small *Lima* chips sold, without reserve, at 1 $\frac{1}{2}$ d. per lb. Of 114 bales *Calisaya* bark 25 sold at 9 $\frac{1}{2}$ d. per lb. for sound, and from 7 $\frac{1}{2}$ d. to 2 $\frac{1}{2}$ d. per lb. for damaged. Thin, dark, flat damaged *Calisaya* quill, sold at 6d. per lb. A parcel of about 1,040 lbs. of Ecuadorian *Red bark* from *Guayaquil* was again offered and bought in—for good bold, slightly damaged, pieces 10s. per lb. is asked; 6s. to 6s. 6d. per lb. for medium ditto.

**CIVET.**—Again dearer. The small parcel of fine quality which has been on the market for some time has been disposed of, it is said, at from 35s. to 38s. per oz. It is said that for further small supplies of the same quality 40s. per oz. is now asked.

**COCAINE.**—The manufacturers advanced their prices by 9d. per oz. on Monday—viz., to 18s. 9d. for *Hydrochlorate*. The stock of crude cocaine here is said to be rather small, and the exports from Peru have fallen off a good deal lately. For these reasons a further advance in the refined drug is thought not unlikely. We hear that some American firms have been placing cocaine-orders freely.

**COCA-LEAVES.**—Considerable sales have been made in Liverpool lately, but in London there does not appear to have been much moving. At auction a parcel of fine soft broken green *Truxillo* coca was shown. It is held for 1s. 1d. per lb.

**CORIANDER SEED.**—*East Indian* coriander-seed is rather plentiful and offering at moderate prices. At auction to-day 11s. per cwt. was named as the price for small, shelly, stony Bombay seed.

**CREAM OF TARTAR.**—Firmly held at 63s. 6d. per cwt. for best white French crystals. *Powder*, 65s. to 65s. 6d. per cwt.

**CUBEBS.**—At to-day's auctions several parcels of cubebs were offered, and 22 bags from Bombay, dull brown, slightly stalky mixed berries, sold at the improved price of 36s. per cwt. For fair berries from Singapore 37s. 6d. per cwt. is asked, and the price for fine blue cubebs is 40s. per cwt.



The recent large purchases in Holland for American account have given more tone to the market.

**CUTTLE-FISH.**—Several parcels were bought in to-day at 2d. per lb. for good pale slightly greyish mixed.

**DRAGON'S BLOOD.**—None was sold at to-day's auctions and the market is rather quiet, although fine gum in reed would, no doubt, bring a high price. Fourteen packages from *Singapore* were all bought in, hard cakes of good bright fracture at 11l. per cwt. (a bid of 9l. 10s. being rejected); ordinary brickly slabs at 6l. 10s. per cwt. Eight cakes *Socotrine* drop, which is now entirely neglected, were bought in at 12s. 6d. per cwt.

**ERGOT OF RYE.**—Very slow of sale. We understand that privately several more lots of *German* ergot have been sold at the price of 6½d., f.o.b., which we recently mentioned, and at somewhat higher rates. The holders now require 3d. per lb., f.o.b. At auction about 30 packages *Spanish* were bought in; 10d. is the price for fair small to medium quality; and for wormy sifted 7½d. would be accepted. A few lots of *Russian* were also bought in at 9d. per lb.

**EUPHORBIIUM.**—Fourteen serons very dirty, dusty, and stony mixed gum were bought in; a bid of 21s. was considered too low.

**GALANGAL** is reported to be very scarce for good quality, and it is said that business was done privately last week, at the rate of 18s. 6d. per cwt., c.i.f. terms. At to-day's auctions, however, a parcel of 61 bales of genuine quality, mixed it is true with a good deal of thin root, sold cheaply at 15s. per cwt.

**GAMBOGE.**—Unchanged; 17 packages were bought in to-day, at from 9l. 15s. to 10l. for good partly cakey pipe somewhat ricy mixed fracture.

**GENTIAN ROOT.**—Fair to good quality is held privately at from 15s. to 15s. 6d. per cwt. At auction the former price was asked for 15 bales of fair root from Bordeaux.

**GLYCERINE.**—Some of the leading German brands have been raised in price 20s. per ton to-day, the quotation being now 46l. for ton lots, double distilled, s.g. 1.260. It is said that there has been a better inquiry lately, both for refined and dynamite glycerine, but it should not be forgotten that we are practically at the end of the season for the former.

**GUINEA-GRAINS.**—Nineteen bags, somewhat stony mixed, as usual, sold at 17s. per cwt.

**GUM ACACIA.**—Rather quiet. Almost everything at auction was bought in; nice pale picked gum, small to medium grain, at from 9l. to 9l. 10s.; good soft palish sorts, at 75s. per cwt. Six bags dull dark *Australian* gum realised 23s. per cwt.

**GUM GUAIACUM.**—Steady, good qualities being in demand. For 2 cases fine bold gummy block a bid of 2s. 8d. per lb. was rejected, and the parcel bought in at 2s. 11d.

**HONEY.**—*Jamaican* honey was in fair supply and sold steadily, about 40 out of 50 packages finding buyers at from 24s. to 29s. for fair clean candied, and from 23s. down to 14s. for brown candied to common. In *Californian* honey a very large business has been done privately at prices ranging up to 42s. 6d. per cwt. for fine quality. At auction 50 cases were bought in at that figure. Twelve cases *San Domingan* honey, dirty thick brown, realised only 15s. per cwt. All the *Australian* honey offered to-day was bought in.

**INSECT-FLOWERS** are held for steady prices. There is some idea, however, that America may shortly come into the market, and in that case a rise is very probable.

**IPBCACUANHA.**—Brazilian root was in very large supply to-day, and one of the owners sold a damaged parcel almost without reserve, with the result that prices for common and damaged root may be quoted from 5d. to 6d. lower, while fine sound root only realised 2d. below the valuations. Colombian root sold at a decline of from 3d. to 4d. per lb. Of 106 bales *Brazilian* (Rio), 41 found buyers as follows:—Good to fine sound annulated, 4s. 9d. to 5s.; fair, partly lean to very dull and wiry ditto, from 4s. 6d. down to 3s. 5d. per lb.; damages, according to quality, at from 4s. 10d. to 3s. 8d. per lb. *Colombian* (Cartagena), fair plump first and second

class damaged, 3s. 6d. to 3s. 3l.; th.rd-class damaged, 2s. 1d. to 3s. 2d. per lb.

**JALAP.**—Although none was sold at to-day's auctions the price may be quoted 1d. lower, as holders would probably accept 1s. 2d. per lb. for good sound *Vera Cruz*. At auction 1s. 3d. was asked for that quality, and a bid of 1s. was refused for rather wormy ditto.

**KOLA.**—Fine qualities are in demand at an advance of about 2d. per lb., one lot of fine bright *West Indian* realising 1s. 7d. per lb. to-day. For 25 bags of good quality a bid of 1s. 3d. was refused, 1s. 4d. being the limit. It is anticipated that prices will advance further.

**LIQUORICE-ROOT** in plentiful supply at very low prices. A parcel of 210 bags very common *Greek* liquorice-root, unpeeled, thin to medium, lying in Manchester, sold at from 3s. to 3s. 6d. per cwt. For another lot, dull unpeeled *Persian*, 7s. 6d. would be accepted, although it is said that recently 8s. 6d. was paid privately for the same quality.

**MASTIC.**—A case of dull yellow grain sold without reserve at 1s. 3d. at the auctions.

**MENTHOL.**—The position is very uncertain. At auction 11 packages were offered, and it was difficult to effect sales, although for one lot rather damp crystals 14s. 6d. per lb. would have been accepted. It is said that good quality may be had at 15s., or perhaps even at 14s. 9d., per lb. on the spot. On the other hand, cablegrams from Japan state that rone is available there, the lowest quotation being 14s., c.i.f. February-March.

**MUSK.**—Firmly held, although at auction little business was done. Of first pile *Tonguin* pods, 24 tins were offered and all bought in, fine small to bold pods, thin blue and brown skin and underskin, at 80s. (It is said that two tins were sold privately before the auction at that price.) For small to bold half-trimmed grey and blue thin skin and underskin fairly dry 64s was refused. Of third pile pods, only 8 tins were shown and all bought in at nominal prices. Two tins dry lean *Chinese Cabardine* pods were bought in at 14s. per oz. Ordinary musk-skin trimmings sold at 3d. per cz.

**MUSK-SEED.**—Firmly held, and rather scarce. A barrel of 1 cwt. *West Indian* realised 6d. per lb. to-day.

**MYRRH.**—Neglected. The only parcel sold to-day was one of two packages medium picked, which realised 97s. 6d. per cwt., without reserve.

**NUX VOMICA.**—Neglected, and very cheap. About 400 bags were offered to-day, and all bought in at 8s. per cwt. for small palish mixed seed, with the exception of a parcel of 42 bags dull seed from Coconada, which realised 3s. 6d. per cwt.

**OIL (ALMOND).**—*Sweet oil of almonds* (English) is held for 1s. to 1s. 2d. per lb.; *Essential* at from 28s. per lb. for commercial to 32s. per lb. for oil guaranteed free from prussic acid.

**OIL (CASTOR).**—Fifty-eight cases first pressings Calcutta oil were bought in to-day at 2½d. per lb.

**OIL (CHAULMOOGRA).**—We are informed that small wholesale parcels of genuine chaulmoogra oil have lately been sold at from 5s. 6d. to 5s. 9d. per lb. Original packages are, however, to be had at lower rates.

**OIL (COD-LIVER).**—In the course of this week the market has undergone a change in the direction of lower prices. *Isdahl's* new cod-liver oil is again offering to-day at 175s. per barrel c.i.f. terms, prompt shipment, and a parcel of 5 casks of fine non-freezing new Lofoden oil, to arrive next week, sold to-day at 190s. per barrel c.i.f. The reports from the fisheries are slightly more favourable, although it is said that the livers still run very lean. At auction to-day 25 casks (in wood) fair old Norweigan summer oil were offered for sale without reserve. Someone called out a bid of 2s. 6d. per gallon, which was speedily increased to 4s. per gallon, and at that figure the whole parcel was sold, net terms.

**OILS (ESSENTIAL).**—Mostly dull of sale. Of *Camphor* oil 18 cases are held for 27s. per cwt. Japanese *Peppermint* oil was offered at the auctions to the extent of 21 cases, which were all bought in. Sales of 40-per-cent. oil are said to have been made privately at 8s. 3d. per lb., and of demen-



tholised oil at 6s. 3d. per lb. American oil of peppermint (HGH) is quoted at 9s. 9d. to 9s. 10½d. per lb.; Wayne County oil at 7s. 9d. per lb., on the spot. Of *Cinnamon* oil 38 cases were offered to-day, and all bought in. The price ranges from 9d. to 1s. 2d. per lb. Reports from the South of France state that frost and snow have jeopardised the *Violets* and *Orange flowers*, and that *Lavender* oil is likely to be much dearer this season. Rumours of damage to the coming crops of *Lavender* and *Peppermint* oils in England are also current. *Sandalwood* oil: Well-known English-drawn brands are quoted at 13s. per lb. for usual quantities, and about 3d. per lb. less for large parcels. Of *Cajuput* oil 33 cases were offered to-day; ordinary quality sold at 3s. per bottle, but for good oil 2s. 4d. was refused. One case of *Star-anise* oil realised 5s. 8d. per lb. Two cases East Indian *Nutmeg* oil sold very cheaply at 2½d. per oz., without reserve; another parcel was bought in at 3½d. per oz. Fair West Indian *Bay* oil is held for 8s. per lb.; one parcel, however, was bought in at 10s. per lb. Two cases 86 per-cent. *Cassia* oil were held for 4s. 3d. per lb. at auction, but an offer of 4s. 2d. per lb. would be submitted.

**OIL (EUCALYPTUS).**—There has been a very strong demand for eucalyptus oil lately, and prices are several pence higher all round. The London stocks, however, are so heavy that no scarcity is to be anticipated; apart from which practically unlimited supplies could be brought forward from the producing countries in a few weeks' time. At auction, to-day, no fewer than 78 cases were offered, only 12 of which sold "without reserve" at 1s. 4d. per lb. (*Native Bear* brand). *Kangaroo* brand was bought in at 2s. 6d. per lb. For M. D. S. & Co.'s oil a bid of 2s. 2d. per lb. was made and rejected, 2s. 3d. per lb. being the quotation. *Platypus* oil has sold privately at 2s. 9d. per lb., and is now held for 3s. per lb. For common oils from 1s. 2d. to 1s. 6d. per lb. is required.

**OIL (OLIVE).**—Although very little business is being done just at present, the prices of eating oils, as well as of common olive oils, show a decided tendency towards higher rates. At present good to fine eating oil may be had at from 4s. 3d. to 6s. per gallon.

**OIL (PEACH-KERNEL).**—The *Pressed* oil has been advanced 1d. per oz. by some of the manufacturers, being now quoted, according to quality, at from 8d. to 10d. per lb.

**OPIUM.**—The London market remains depressed for *druggists'* opium of all kinds. The values are nominally from 9s. 3d. to 9s. 9d. per lb. for good to best *Smyrna* kinds, and from 8s. 6d. to 9s. per lb. for second *druggists'*, but several holders show much anxiety to sell, although they are unable to find buyers. *Soft shipping* opium, on the other hand, is rather firmly held at from 11s. 6d. to 12s. per lb. according to quality. The stock of this variety is rather small. *Persian* opium steady at from 10s. to 12s. per lb.

**ORANGE PEEL.**—In plentiful supply, and about 1d. to 1½d. per lb. lower at to-day's auctions. Of about 60 packages offered, eight sold at from 8d. to 10d. per lb. for fair to good bright strips from Tripoli.

**ORRIS-ROOT.**—It is stated that this drug, after the recent fall in prices, is receiving more attention in Italy, where the position is now looked upon as pretty sound. The first-hand stock of nearly all qualities is described as small. The following are the quotations:—*Florentine*, picked, 63s.; ditto sorts, 59s.; *Veronese*, picked, 52s. 6d.; second quality, 50s. per cwt., f.o.b. Leghorn.

**PILOCARPINE.**—An error occurred in the quotation for this drug in our last issue. The article is very scarce, and the price high, although not yet quite so elevated as we had it, the current quotation being 8s. 6d. per gramme for *Hydrochlorate*. Some *Nitrate* may yet be had at 7s. 6d. per gramme.

**POPPY HEADS.**—It is expected that *English* poppies will shortly advance in price. *Belgian* may still be had at 14s. per thousand (22 to 23 lbs. weight).

**PRUSSIAN POTASH.**—The convention price for *yellow prussiate* remains at from 10½d. to 10¾d. according to quantity, but outsiders offer at 9¾d. per lb.

**QUININE.**—Rather firmer. The only business reported this week consists of about 10,000 oz HB or B & S from second-hand at 10¾d. per oz. It is probable that it would still be possible to buy at that figure. At auction to-day, 5,000 oz. Auerbach brand were bought in at 1s. per lb., a bid of 11½d. was refused.

**RHATANIA.**—At auction to-day 10 bales of fair to good quality were bought in at from 4d. to 6d. per lb.

**RHUBARB.**—Rather dull of sale, at low prices. Of 138 cases, 40 sold at to-day's auctions at the following rates:—*Shensi*: Round, small to bold fair, partly dull coat, badly trimmed, seven-eighths pinky fracture, from 1s. 9d. down to 1s. 7d.; small to medium, orange coat, partly spongy, half pinky fracture, round and flat mixed, 1s. 5d.; small, partly unsightly coat, three-fourths pinky, one-fourth pinky fracture, flat, 1s. 2d.; medium to bold, partly loose, three-fourths pinky fracture, round, 1s. per lb. *Canton*, medium to bold good pale coat, pinky partly brickly fracture, round, 1s. 8d.; small stalky druggists' root, 1s. 3d.; small to medium half-loose fracture, slightly wormy partly pinky, 10d.; round pickings, 9½d. per lb. *High-dried* flat mixed sizes very wormy, 6d. to 6½d.; ditto fair pickings, 7½d.; round fair coat half-dull half-fair fracture, 5½d. per lb.

**SAFFRON.**—Firmly held at from 26s. to 29s. per lb. for good to fine Valencia.

**SARSAPARILLA.**—*Mexican* root is about ¾d. per lb. lower: 50 bales slightly damaged chumpy root sold at 3½d. per lb. to-day. Damaged *Honduras* root is held for 1s. 1d. per lb.; 5 packages of vermin-gnawed root realised 11½d. per lb. Damaged *Lima* root sold at 10d. to 10½d. per lb. Damaged *Guayaquil* root sold at 6d. to 8d. per lb., *Native Jamaica* at 6d. to 7d. Twenty-seven bales of damaged *grey Jamaica* root realised from 1s. 2d. to 1s. 5d. per lb.

**SCAMMONY.**—*Roots* have lately sold at somewhat better prices, and the stock has now become exceedingly small. The last nominal quotation was 30s. per cwt. Fine *Scammony* gum-resin (Turkish) is also inquired for at from 22s. to 25s. per lb. Common grades are fairly plentiful, however, and neglected.

**SENEGA.**—The price of fair quality is cabled at 1s. 4d. per lb., c.i.f., from New York.

**SENNA.**—The London stock, both of *Alexandrian* and of *Tinevelly* sennas, is small. At auction to-day 210 bales *Tinevelly* leaves were mostly sold at rather firmer prices: fair greenish, 4d. to 4½d.; medium, partly dull and specky, to fair, 2d. to 3½d.; ordinary, 1¾d. down to ½d. per lb.

**SNAKE ROOT.**—Said to be dearer in New York, from where 1s. 8d. per lb., c.i.f., is quoted. At auction a bid of 1s. 4d. per lb. was refused for 1 bale, which is held for 1s. 5d. per lb.

**SQUILLS** are said to be scarce, in spite of which the parcels shown at auction are not easy to sell. Good quality was bought in at 4d. per lb.; common sold at ½d. to 1d. per lb.

**STAVESACRE-SEED.**—Hardly obtainable. We understand that as much as 1s. 9d. per lb. is now required for small lots.

**SULPHUR.**—Advancing, owing to the labour troubles in Sicily. Foreign flowers are quoted at 6l. per ton on the spot; roll at 5l. 7s. 6d. to 5l. 10s. per ton.

**TONCA-BEANS.**—Selling rather freely at low prices. One box of fine frosted *Pará* beans (*Angostura* character) realised 2s. 4d. per lb.; ordinary foxy 7d. to 8¾d. per lb.

**VANILLA.**—Steady, but quiet. About 138 packages were mostly sold to-day.

**WAX (BEES).**—Firm, excepting for *San Domingan* wax, which sold cheaper to-day at 7l. 5s. to 7l. 7s. 6d. per cwt. for good and 6l. 15s. for dark wormy. *Jamaican* wax realised full prices—8l. 10s. to 8l. 15s. for fair to fine. *French* wax in orange bars is held for 8l. per cwt. About 160 packages *Madagascar* wax sold at from 7l. to 7l. 10s. for brown to good bright.





### Memoranda for Correspondents.

*In letters for publication correspondents are requested to express their views as concisely as possible.*

*Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.*

*The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.*

### Protection for Proprietary Articles.

SIR,—We have great pleasure in noting that another large firm has joined the honourable roll of owners of proprietary articles, who offer to chemists a protected profit for selling their goods, of whom Messrs. Stern for pepsalia, Messrs. Burroughs, Wellcome & Co. for all their goods, Messrs. Chave & Jackson for celandine, Messrs. Blondeau for vinolia preparations, and Messrs. Elliman for their embrocation, have hitherto been the best-known examples. Messrs. Allen & Hanburys have now issued a memorandum to all direct purchasers of their goods requiring them to sign a non-cutting agreement which leaves a protected profit of about 15 per cent. This is little enough, as we think 20 per cent. would not be too much, but anyhow it is infinitely better than selling such goods at or below cost, as in competition with the big cutters has so constantly to be done; and we hope that the example of the above firms will be followed by a large number of other houses, and if so there will be better days in store for chemists.

It may be argued that no one is obliged to sell at cost price, but it is not so. Everyone knows that about 10 per cent. of malcontents, who will not close, are sufficient to prevent all the other chemists in the town or district from shortening their hours of labour by early closing; and so it is with profits, some *will* cut, and others must follow or lose business, which they cannot afford to do, and it is only by force that extreme cutters can be controlled.

Experience proves that wholesale firms who endeavour to protect their customers meet with strenuous opposition, and encounter much annoyance and expense during the first few months from many who ought to know better; who, instead of welcoming any trade-benefit, will bluster and threaten closure of accounts and adopt all sorts of unworthy devices for obtaining goods clandestinely; and there is always danger that the clamour of the few noisy ones, who are sure to oppose any change, may be accepted as representing the feeling of the trade at large. This, however, is really not the case, and it lies with the many who appreciate any honest attempt to improve matters to take increased interest in recommending the goods of those makers who offer protection, and discountenance those of others who do not.

For ourselves we shall always be glad to give a prominent show and a friendly recommendation wherever we can honestly do so to the goods of firms who offer protection, but never to those of the selfish houses who glory in their goods being cut just for the advertisement.

Yours, &c.,

Brighton, March 2.

HEADLAND & CO.

### Boycotting Wholesale-houses.

SIR,—This proposal, which is being referred to in the *C. & D.*, is only another form of wail over the cutting system. One correspondent recently drew attention to those retail chemists who supply grocers with goods, and condemned the practice. I belong to this class, and with your permission shall give a reason for the faith that is in me. In Scotland, at least, twenty-five years ago, no grocer ever thought of entrenching on the chemist's preserves. The result was that about one-half of our entire turnover consisted in retailing patents at full prices, which gave a living profit. But about that time co-operative societies became the order of the day in every town and village, and at first grocers went to the wall, but later turned their attention to patent

medicine supply in order to keep up their returns. The ball once set rolling by Mr. A., with 1s. 1½d. patents at 1s., with success, induced Mr. B. to follow at 11d., and so on. Chemists, who were determined to hold their own, soon saw that only by stepping in as producers was it possible to protect themselves. I, among others, thought so, and in the town where I live I supply every local grocer, and even the stores, with 1d. lines, the result being that my gross turnover has swelled and my actual profits are still on a par with those in the days when 1s. 1½d. ruled. Boycotting wholesale houses will not cure cutting. Better fight them on the ground they cover, which I maintain any wide-awake retail-chemist can do locally, as his working-expenses are practically *nil*, and the goods being handed in saves the customer carriage.

R. C. D. (262/1.)

### Dr. James's Fever-powder.

SIR,—In your report, February 23, of the interesting papers "On Nostrums," by Mr. Long, he speaks of Dr. James's Fever-powder, but he does not say how it was prepared. Perhaps some of your readers would like to have the recipe.

Dr. Munro took the pains to examine the records of the Court of Chancery, where the preparation is given, the patentee being first sworn in the most solemn manner that this is the true and only genuine receipt for preparing it.

#### Receipt.

"Take antimony: calcine it with a continual protracted heat in a flat, unplazed, earthen vessel, adding to it, from time to time, a sufficient quantity of any animal oil and salt, well dephlegmated; then boil it in melted nitre for a considerable time and separate the powder from the nitre by dissolving it in water."

When the doctor first administered his powder, he used to join 1 grain of the following mercurial preparation to 30 grains of his antimonial powder; but in the latter part of his life he discontinued it.

His mercurial, which he called a pill, appears by the Records of Chancery to have been made in the following manner:—

#### Second receipt.

"Purify quicksilver by distilling it nine times from an amalgam, made with martial regulus of antimony and a proportional quantity of sal ammoniac; dissolve this purified quicksilver in spirit of nitre, evaporate to dryness, calcine the powder, till it becomes of a gold colour; burn spirit of wine upon it, and keep it for use.

"Signed and sworn by me,

"ROBERT JAMES."

The fever-powder grew into great repute about the year 1750, and it was no sooner in repute than the physicians began to persecute, as some time after the chemists began to counterfeit it.

The principal objections the physicians made were—they did not know of what it was compounded; it was empirical; not agreeable to the Pharmacopœia Londinensis, and below the dignity of liberal practice. In short, it was not an orthodox medicine. For there is an orthodoxy in physic as well as in divinity.

Dr. James wrote a vindication of the powder, which he finished with these words:—

"If the dignity of physic, like that of Moloch, is to be supported by human sacrifices, it is the duty of every civil society to treat both the art and its professors like the Knights Templars, who for their transcendent villainies were extirpated from the face of the earth."

Yours truly,

H. O. HUSKISSON.

### Crystallised Glycerine.

SIR,—I send you a sample of glycerine bought recently as "Glycerin Pur. P.B. 1-260."

On arrival the contents of the ½ cwt. tin were found to be frozen absolutely solid.

The temperature of preceding night, during which the tin would probably be on rail, was somewhere about -30° C. The contents of the tin were heated, and a portion of the gly-



cerin placed in a 40-oz shop-bottle, which was then placed in its usual place on shop-shelves. The glycerine again freezes although a bottle of aq. dest. standing on the same shelf remains unaffected.

I take it that pure glycerine should not freeze at this temperature, and should feel obliged if you could state adulterant. I remain Sir, yours faithfully,

A SUSSEX SUBSCRIBER. (263/1.)

[The phenomenon was observed for the first time about twenty years ago, and has been often noticed since, especially on the Continent. The glycerine contains more than a trace of the sulphuric radicle, but otherwise is pure. If we are not mistaken, the presence of this trace of impurity assists the crystallisation. As a rule, solutions which have crystallised once do so again readily, although the physical conditions are not exactly the same.—ED.]

#### Not Anchor Ice.

SIR,—It occurs to me that you would like to add this photograph of two bottles of Hunyadi water to your collec-



tion of oddities. The photo speaks for itself. I have no experience of such a result from frost in past winters.

Darlington, February 25.

Yours truly,

LEO W. WILLIAMSON.

[The photo speaks also for the soundness of the Hunyadi bottles.—ED. C. & D.]

#### Anchor Frosts.

SIR,—At our market of January 26 I was told by several customers that the frost had come to stay, as they had observed anchor frosts in the river; and one gentleman said that a water-miller stated that he had noticed when the kind of frost then prevailing set in it lasted a long time, and he was not wrong this season. Yours truly,

6 Long Causeway, Peterborough, STEPHEN WILLSON.

March 1.

#### Bristol Beeswax Case.

SIR,—With reference to your editorial comment, you are not aware that the defendant actually paid nothing whatever. Messrs. Horner & Sons defrayed all costs incurred by the prosecution. Yours truly,

23 and 24 Redcliff Street, Bristol, A. & J. WARREN.  
February 22.

#### Colourless Tincture of Iodine.

SIR,—My attention has been called to the "Editorial Comments" in your issue of January 26, in which certain reflections are made on my conduct in connection with a prosecution at Brentford for the sale of colourless tincture

of iodine. As these remarks were evidently made under a misapprehension, I shall be glad if you will allow me to make an explanation.

I am in no way responsible for the taking of any particular samples. When any are brought to me by the inspectors, I analyse them and frame my certificates accordingly. Nor am I directly responsible for any action that may be taken on my certificates.

I do not on this account wish it to be understood that I disapprove of the action taken in this particular case.

I consider it of the utmost importance that when a certain article is asked for, the inspector or other member of the public should be supplied with it, and not with another which may, in the opinion of the vendor, be equivalent. Judging from the report of the case in your issue of January 19, the Bench were evidently of the same opinion.

I have known for years that a colourless tincture of iodine has been sold; but I am strongly of opinion that it is a practically useless preparation, and this opinion is in no sense modified by the fact that medical men prescribe it, and pharmacists dispense it.

I am, your obedient servant,

EDWARD BEVAN,

Analyst to the County Council  
of Middlesex.

Lincoln's Inn, March, 1.

#### A Suppository-mould.

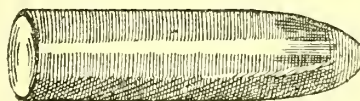
SIR,—I send you herewith a 120-grain glycerine suppository, cast in a mould which I have recently had made. The shape I consider good for insertion, and adapted for making different sizes in the same mould. This I manage in the following manner:—Get thimbles made to hold 45, 60, 90, or any number of grains required; solder a bit of stout brass wire to the side for handle, and it is complete. Of course, as theobroma pessaries are lighter, different moulds will be required. The idea may be of service to anyone wishing to avoid purchasing several different moulds.

If desired, I would get any chemist a 12-hole mould made to my pattern. Yours faithfully,

Beeston, March 4.

A. PERKS.

[The figure is a little smaller than the suppository received.]



Mr. Perks's description does not show how the suppositories are taken out of the mould. We presume from the sample that the mould is parted in two in the usual way.—ED.]

#### Passing the Major by Instalments.

SIR,—Will you allow me to echo the sentiments of "M.F.C.S." in your last issue, on the passing of the Major examination by instalments, and to thank that gentleman for one of the best suggestions in that line that I have lately seen. If the suggestion is adopted, the Council of the Pharmaceutical Society may see their way clear to make some slight concessions to those who were Associates in business before the celebration of the jubilee of the Society, as a mark of the appreciation of their support as Associates.

VERBASCUM. (262/4.)

#### DISPENSING NOTES.

Correspondents should consult "The Art of Dispensing" in regard to dispensing difficulties. Difficulties not explained therein may be sent to the Editor, who invites a general expression of opinion upon the under-mentioned topics.

#### Wrinkles.

Writing in consequence of the Dispensing Wrinkles Competition. Mr. J. M. Mills, a Sydney (N.S.W.) pharma-



cist, says:—"For holding sealing-wax and seal I use a 4-lb. brass weight. I have never found its equal. I also keep pasted on the inside of a cupboard-door a ready reckoner of doses, as enclosure. It saves a great amount of time. The device of Mr. Glew, of Clapham Road, for dividing doses on the bottle I consider the best wrinkle printed in your competition."

[Mr. Mills's table has columns for each drachm, from 1 to 16, and 15 sub-lines for figures, from 6 to 160—viz, 6, 8, 10, 12, 16, 20, 24, 32, 40, 48, 64, 80, 96, 128, and 160. The following abstract of the table shows how it can be used for ascertaining how many grains or minims of a medicine will be in each of the doses that the quantity taken is divided into:—

| Taken              | 3i. | 3iij. | 3vij. | 3x. | 3xiiij. | 3xvj. |
|--------------------|-----|-------|-------|-----|---------|-------|
| Divided into doses |     |       |       |     |         |       |
| 6 .. ..            | 10  | 30    | 70    | 100 | 130     | 160   |
| 10 .. ..           | 6   | 18    | 42    | 60  | 78      | 96    |
| 16 .. ..           | 3½  | 11½   | 26½   | 37½ | 48½     | 60    |
| 48 .. ..           | 1½  | 3½    | 8½    | 12½ | 16½     | 20    |
| 80 .. ..           | ¾   | 2¼    | 5¼    | 7½  | 9¾      | 12    |
| 128 .. ..          | ½   | 1½    | 3¾    | 4½  | 6¾      | 7½    |

From this example anyone can work out a table to suit his own purposes.]

244/28. *Country Chemist*.—(1) There may be nitro-molecular change in a mixture containing  $MgSO_4$  and KI, but that is an abstruse problem which the dispenser, as such, need not vex his soul about. (2) Aqua in prescriptions means distilled water; nothing else. See your B.P., page 56. (3) For the regulations as to benzoline and the like, see DIARY, page 215. (4) Chloric Ether is a synonym for spirit, chloroformi, and the latter should be dispensed when no manufacturer's name is mentioned.

242/13. *Hank*.—Anodyne Pine Expectorant, which occurred in a Winnipeg prescription, is a non-official preparation, but whether proprietary or not we cannot say. Perhaps some Canadian subscriber may send us the information for you.

#### What is Chlorodyne?

SIR,—Several chemists, as well as myself, are in doubt as to what should be dispensed when "chlorodyne" is ordered in a prescription. I have always used tr. chlorof. et morph., P.B., but I know others who use Collis Browne's chlorodyne. As there is a big difference in the two preparations, I should like to know what is generally used in the trade. This is another instance of the evil of prescribing proprietary compounds, as any maker's chlorodyne could be used.

I am yours, &c.,

Deal, March 4.

W. A. (261/39.)

[A discussion on this subject in this column several years ago decided, by a large majority, in favour of Browne's preparation. The "evil" referred to is the thing that has given us some of the best preparations in the Pharmacopœia—liq. bismuthi, ext. cinchonæ liq., ext. opii liq., and many others—but the official preparations are often a long way behind the proprietary ones.—ED.]

#### LEGAL QUERIES.

252/71. *Anon* writes: "I engaged an assistant for no specified time, with the usual month's notice. After a short time I find he does not suit. I give him notice on the 18th

of the first month: does not his assistantcy become void on the 18th of the next month? He insists that it should be counted from the expiry of the first month—not from the 18th." [We do not think the assistant's contention could be upheld. In the case of "domestic servants," the leading case is *Gordon v. Potter* (1 F. and F. 644). In that case a cook, engaged on a yearly salary, was dismissed ten days after her engagement commenced. The Court held that she was entitled to one calendar month's notice or a month's wages. There is no similar case reported, so far as we know, with regard to an assistant.]

256/52. Referring to a recent reply in this section, *Mrs. Johann Maria Farina*, Gegenüber dem Friesenplatz, Cologne, writes to say that his trade-mark is registered in Cape Colony, Orange Free State, South African Republic, and Natal.

261/48. *Kent*.—Licensed vendors of stamped medicines are permitted to break open packets, and supply the contents (if not made up into a new packet). See *Alpe*, page 29.

256/23. *Sale* sold some mineral waters "on the understanding that the customer would return the empties or pay for them." The water was paid for. The empties have been disposed of to another trader, who asks "Sale" what he will allow for them. Can he compel him to give them up? The first customer has since compounded with his creditors. Can any action be taken against him? [The whole matter turns on whether the property in the cases passed to the purchaser of the waters. If so, he could dispose of them, and the vendor has no remedy. If the cases were charged in the invoice we should say that the property did pass. If, however, the cases were merely on loan, the Factors Act does not, we think, apply, and the cases can be demanded and recovered from the man who purchased from the customer. We cannot advise as to proceedings against the first purchaser on what we know.]

261/40. *De W.*—(1) Poppy-heads and salts of lemon are not scheduled poisons. (2) Dispensing of drugs which are not scheduled poisons is not an illegal act in Great Britain.

261/36. *G. D.*—Unless you made any special agreement, the agent would have a valid claim for commission if he could prove that he first gave the purchaser information respecting the business you had asked him to sell, even though a considerable time may have elapsed between his giving that information and the actual purchase. We do not know what length of time might be regarded by a Court as sufficient to invalidate the claim. We do not know of any general rule as to the discount to allow for the book-debts. If they are all good, 10 per cent. would be enough to allow for collection.

263/60 *J. P. C.*—The formula you quote, made with cantharidin instead of cantharides, is a well-known lotion to stimulate the growth of the hair. A similar one is quoted in Squire's "Companion." It would probably cause some eruption, but that is expected. If your customer should claim damages, you could get plenty of evidence to show that cantharidin is what is usually supplied in such a case, but it would have been better to have explained that before dispensing the lotion in which cantharides is expressly ordered. It is impossible to say what a jury might decide in such a case; all would depend on the evidence on both sides and how it was presented. But we do not think much of a case could be made out for damages. (See reply to "Gentian," next page.)

#### MISCELLANEOUS INQUIRIES.

239/18. *Custard*.—Your Egg-colouring Liquid seems to be a solution of tartrazine, but any orange aniline-colour will serve the purpose as well.



249/47. *Subscriber* (Hadfield).—We have made some experiments with the Cotton Saturated with Oil, and the course of treatment which we should recommend is, in the case of the cleaner cloth, heat the material on steam-pipes or in a well-heated room (over a steam-boiler, for example). By this means most of the mineral oil is evaporated. The same course may be followed with the cotton stained by black oil. In both cases the cloth should, after heating, be steeped in boiling water, and when it cools down so that the hand can be put into it add to each tubful a pint of the following solution:—

|                               |          |
|-------------------------------|----------|
| Soft soap .. ..               | 1 lb.    |
| Spirit of turpentine..        | 12 oz.   |
| Strong solution of ammonia .. | 8 "      |
| Soft water to .. ..           | 1 gallon |

Dissolve the soap in half the water, and to this add the turpentine, previously mixed with ammonia. Shake well, and add the rest of the water.

Finally, wash the cotton in the usual way.

252/40. *J. P.*—The Preparation for Brown Boots is a soft furniture-cream coloured with Bismarck brown.

241/24. *A. L.*—The ointment is not amenable to analysis.

241/10. *L. L.* sends a sample of a Cough-mixture which has an astonishing sale in some districts in the North of England as a remedy for coughs and colds, particularly influenza. Each dose of it, as far as we can judge, contains—

|                          |        |
|--------------------------|--------|
| Ammon. brom... ..        | gr. v. |
| Tr. camph. co. .. ..     | ℥xx.   |
| Ext. glycyrr. liq. .. .. | ℥v.    |
| Tr. digital. .. ..       | ℥ij.   |
| Syr. scillæ .. ..        | ℥xv.   |
| Syr. .. ..               | ℥ss.   |
| Aq. ad .. ..             | ℥ij.   |

M.

247/10. *A Country Chemist.*—Sorry that we cannot say what the pile-powder contains.

240/23. *Feverish.*—The Cattle fever Mixture, which is so popular in Wiltshire, and of which you send a sample, is like the following:—

|                    |      |
|--------------------|------|
| Ammon. carb. .. .. | ℥ss. |
| Tr. opii .. ..     | ℥j.  |
| Chlorodyni .. ..   | ℥j.  |
| Aq. ad .. ..       | ℥ij. |

M.

To be given as a dose in gruel.

246/40. *Cantab.*—Our examination of your specimens can only lead us to the one conclusion that the thickening of the lime-cream is due to the intensely cold weather, and not to any fault of the materials or of the formula. You may never be troubled the same way again—at least, we hope not.

259/71. *Argon.*—Perhaps one of the wholesale druggists to whom you are known might help you.

254/65. *Peppermint.*—(1) The Peau d'Espagne does not differ materially from the perfume usually sold under that name. In the residual odour sandalwood and musk predominate. We gave a formula about eighteen months ago, which you will find from the indexes. (2) We have the book on the stocks.

257/43. *Liquorice*—(1) Liquor Copaibæ, Santal, &c.—See *C. & D.*, September 16, 1893, page 463. (2) Remedy for Gleet.—See *C. & D. DIARY*, 1893, page 326. (3) Hargreaves' Book.—See Bnyers' Guide in the *DIARY*.

261/67. *Student.*—You will find the information you want in our last Educational number.

252/60. *Gentian.*—(1) Cantharidin Hair-lotion.—An alkaline lotion on the lines of Squire's lin. crinale may suit you—*e.g.*:—

|                      |        |
|----------------------|--------|
| Cantharidin. .. ..   | gr. j. |
| Chloroformi .. ..    | ℥j.    |
| Spt. ammon. arom. .. | ℥j.    |
| Glycerini .. ..      | ℥ij.   |
| Aq. lavand. ad .. .. | ℥ij.   |

Powder the cantharidin, and dissolve in the chloroform; then add the other ingredients.

This lotion should be applied to the skin of the head with a soft tooth-brush. (2) Varnish for Tooth-stoppings.—First coat with flexible collodion, then with mastic and chloroform.

252/58. *D. C.*—G. Smith & Co., Queen Victoria Street, E.C., publish a guinea book on the manufacture of aerated waters, and one at 5s., but you will get suitable books free from the firm who supply you with plant.

252/49. *A. H. W.*—Bestucheff's Nerve-tincture:—

|                               |       |
|-------------------------------|-------|
| Liq. ferri perchlor. fort. .. | ℥vj.  |
| Ether. .. ..                  | ℥iv.  |
| Spt. rectificat. ad .. ..     | ℥xvj. |

Mix the solution in a white flint bottle with 10 oz. of the spirit, add the ether, and make up to 16 oz. with spirit. Cork the bottle well, and expose to sunlight until decolorised. Then place in a shady spot, and remove the cork occasionally until the solution becomes yellow.

167/32. *Alex.*—(1) Solutions of calcium and magnesium chlorides are used for wetting letter-copying books when the letters are old. (2) Liquid Black Stencil-ink.—Printer's ink thinned with benzol.

255/32. *Climax.*—Tan Paste for Shoes.—See *C. & D. DIARY* 1894, page 370.

252/74. *C. J. A.*—You must give your name when writing to us, and repeat your query.

56/38. *B. D.*—(1) Brain-tonic.—“It must be for pupils who use their brain,” explains the querist, who is an Indian subscriber. It must be in pill-form. Perhaps the pupils may find benefit from the following:—

|                       |                   |
|-----------------------|-------------------|
| Zinci phosphid. .. .. | gr. iij.          |
| Ferri redact. .. ..   | gr. xxiv.         |
| Ext. nucis vom. .. .. | gr. iv.           |
| Ext. gentian. .. ..   | qs. ut fiat mass. |
| Div. in pil. xxiv.    |                   |

One pill to be taken thrice daily.

(2) The best way to distil essential oils is to pass a current of steam through the substances containing them. See the article on the subject on page 340.

255/66. *Ajax.*—Perhaps Mr. Hehner, Billiter Square, E.C., may give you a copy of his report. You will find all about it in our issue of March 6, 1896. You should be careful in using any general statements in application to specific cases. For example, if a London analyst, on the basis of an inquiry in London, were able to show that the dispensing in stores is not good, that does not justify the conclusion that all store-dispensing is bad, or that it is bad in the stores in your town, a hundred miles from London.

256/43. *H. J. J.*—As to works on food-analysis, see reply 20/29 in *C. & D.* of December 15. To detect traces of Copper in Peas, make some of the peas into a thin paste with water acidulated with hydrochloric acid, and place a bright iron spatula in the paste. If any copper is present it soon shows itself on the iron.



255/69. *H. D. K.*—Acid Glycerine of Pepsin—See *C. & D.*, December 16, 1893, page 878.

257/39. *Dens.*—In certain proportions, listerine, carbolic acid, and camphor may give a clear mixture, but the quantity of listerine must be so small as to be useless, or so large as to render the addition of carbolic acid and camphor unnecessary. One of each of the latter to 20 or 30 of listerine should make a clear solution.

257/20. *Humber.*—(1) What should be sold for Salts of Lemon?—There is not one recognised rule, and each retailer must decide for himself whether he will give pure super-oxalate of potash or a mixture of that and bitartrate. (2) There is no law to prevent you visiting a customer's house and extracting a tooth, but you could not recover a fee for so doing. We do not know what you mean by "a special fee." (3) Your Chlorodyne-label should read, "For children above 3 years." Otherwise it is safe. Stamp-duty must be paid on all bottles of the chlorodyne sold. (4) The various Arrowroots can be distinguished microscopically. The difference in price is not a measure of their dietetic value; in fact, it is nonsensical to speak of the dietetic value of the article in relation to the price, because the value lies in its peculiar property in being retained by the stomach under certain conditions, and its soothing, rather than non-irritating, influence on the intestinal tract. Our own opinion is that Bermuda arrowroot is worth the money, but not "proportionate to the difference in price between it and Natal," because the latter does not suit some purposes at all. The cheaper arrowroots are very suitable for children who are not much troubled with vomiting, but for children and adults alike who have difficulty in retaining food, Bermuda arrowroot is tolerated where the other varieties are not.

### INFORMATION SUPPLIED.

For this section we are always glad to receive from subscribers brief notes on practical subjects, recipes which have been found good in practice or which have required modification, and hints or fresh ideas on any pharmaceutical or trade matter.

#### Neuralgia mixture:—

|                 |    |    |    |    |       |
|-----------------|----|----|----|----|-------|
| Ammon. brom.    | .. | .. | .. | .. | 5iss. |
| Tr. gelsenii    | .. | .. | .. | .. | 5ij.  |
| Tr. gent. co.   | .. | .. | .. | .. | 5iij. |
| Aq. chlorof. ad | .. | .. | .. | .. | 5ij.  |

M.

Dose: One tablespoonful.

The above mixture gives immense satisfaction.

#### Flatulence-mixture:—

|                   |    |    |    |    |       |
|-------------------|----|----|----|----|-------|
| Solli bicarb.     | .. | .. | .. | .. | 5j.   |
| Spt. ammon. arom. | .. | .. | .. | .. | 5j.   |
| Tr. gent. co.     | .. | .. | .. | .. | 5iij. |
| Tr. card. co.     | .. | .. | .. | .. | 5ij.  |
| Aq. chlorof. ad   | .. | .. | .. | .. | 5ij.  |

M.

Dose: One tablespoonful.

#### Gout and Rheumatic Mixture:—

|                 |    |    |    |    |       |
|-----------------|----|----|----|----|-------|
| Sodii salicyl.  | .. | .. | .. | .. | 5iss. |
| Pot. cit.       | .. | .. | .. | .. | 5j.   |
| Vin. colch.     | .. | .. | .. | .. | 5iss. |
| Tr. gent. co.   | .. | .. | .. | .. | 5ij.  |
| Aq. chlorof. ad | .. | .. | .. | .. | 5ij.  |

M.

Dose: One tablespoonful.

L. L. (241/10.)

251/45. *Fixative for Chalk-drawings.*—Skim-milk carefully poured over the drawing, so as to wet every part, is an excellent fixative. Diluted "condensed" milk is even better, for which the added sugar accounts. AD REM. (263/8)

*Curb or Splints in Horses.*—The following may be set to your readers. I have sold it for over twenty

years, and certainly have not found a better remedy in my thirty years' experience:—

|                   |    |    |    |    |      |
|-------------------|----|----|----|----|------|
| Pulv. cantharidis | .. | .. | .. | .. | 5ij. |
| Pot. iodidi       | .. | .. | .. | .. | 5j.  |
| Ungt. hyd. fort.  | .. | .. | .. | .. | 5j.  |
| Petrol. jelly     | .. | .. | .. | .. | 5ij. |

M.S.A.

Does not blemish or disfigure.

EL DIABLO. (263/58.)

### New Books.

Herschell, G. *Indigestion: An Introduction to the Study of the Diseases of the Stomach.* Second edition. Cr. 8vo. 5s.

Hodges, J. A. *Photographic Lenses: How to Choose and How to Use.* An Elementary and Practical Guide to the Selection and Use of Photographic Objectives. With original illustrations. Post 8vo. Pp. 142. 1s. 6d. net. (Lund.)

Kanthack, A. A., and Drysdale, J. H. *A Course of Elementary Practical Bacteriology*, including Bacteriological Analysis and Chemistry. Post 8vo. Pp. 204. 4s. 6d. (Macmillan.)

Nernst, W. *Theoretical Chemistry*, from the standpoint of Avogadro's Rule and Thermodynamics. Translated by Prof. Charles Skeele Palmer. With 26 woodcuts and 2 appendices. 8vo. Pp. 712. 15s. net. (Macmillan.)

Scroesby-Jackson, R. E. *Note-book of Materia Medica, Pharmacology, and Therapeutics.* Fifth Edition. Revised by J. Rutherford Hill, Ph. C., and Ralph Stockman, M. D. 8vo. 1p. cxviii. and 743. Cloth. 12s. 6d. (Thin and Simpkin.)

Tuson, the late Richard V. *A Pharmacopœia for the Use of Practitioners and Students of Veterinary Medicine.* Fifth edition. Edited by James Bayne. 8vo. Pp. x. and 370. Cloth, 7s. 6d. (Churchill.)

Whitely, R. Lloyd. *Organic Chemistry: The Fatty Compounds.* Post 8vo. Pp. viii. and 291. Forty-five woodcuts. Cloth, 3s. 6d. (Longmans.)

### Next Week.

Tuesday, March 12.

*Royal Institution of Great Britain.* At 3 P.M. Professor Charles Stewart on "The Internal Framework of Plants and Animals."

*Liverpool Chemists' Association.* Annual dinner, Adelphi Hotel, Liverpool. At 7.30 P.M. Hon. Sec., Anthony S. Buck, 179 Bedford Street, Liverpool.

Wednesday, March 13.

*Pharmaceutical Society*, 17 Bloomsbury Square, W.C. At 11.30 A.M. Meeting to arrange about the annual dinner. At 8 P.M., evening meeting.

*Manchester Pharmaceutical Association*, Victoria Hotel. At 7.30. Mr. George Clayton on "Co-operation in Plants."

*Sheffield Pharmaceutical and Chemical Society.* At 8.30 P.M. Professor Arnold on "Recent Research in the Micro-structure of Steel."

*Society of Arts*, John Street, Adelphi, W.C. "The Meat-supply of the United Kingdom." By Mr. E. Montague Nelson. At 8 P.M.

Thursday, March 14.

*Chemists' Assistants' Association.* At 8.30 P.M. Mr. A. C. Meyjes on "The Pharmacist in Fiction."

*Midland Pharmaceutical Association.* Social meeting at the Midland Hotel, Birmingham, at 8.30 P.M.

Friday, March 15.

*Royal Institution of Great Britain.* At 9 P.M. Professor Roberts-Austen, on "The Rarer Metals and their Alloys."

*Brighton Junior Association of Pharmacy.* Fifth annual ball, Royal Pavilion, Brighton. At 9 P.M. Hon. Sec., F. A. Crowhurst, 109 St. James's Street, Brighton.

Saturday, March 16.

*Royal Institution of Great Britain.* At 3 P.M. Lord Rayleigh on "Waves and Vibrations."





TRADE MARK.

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The Malt Extract and Cod Liver Oil is a combination of the Malt Extract with the largest possible proportion of the finest Norwegian Cod Liver Oil, and is a most carefully prepared and palatable mixture.

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A perfect solution of Podophyllin, containing  $\frac{1}{2}$  grain in each drachm.

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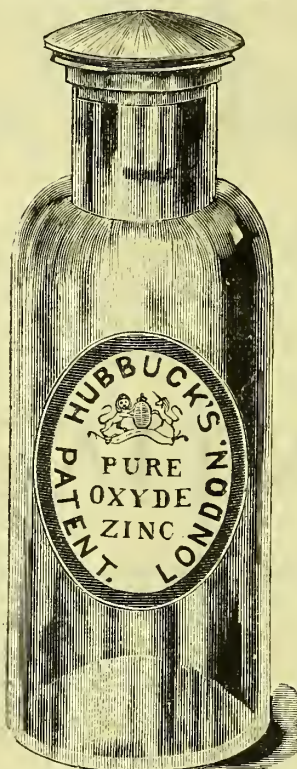
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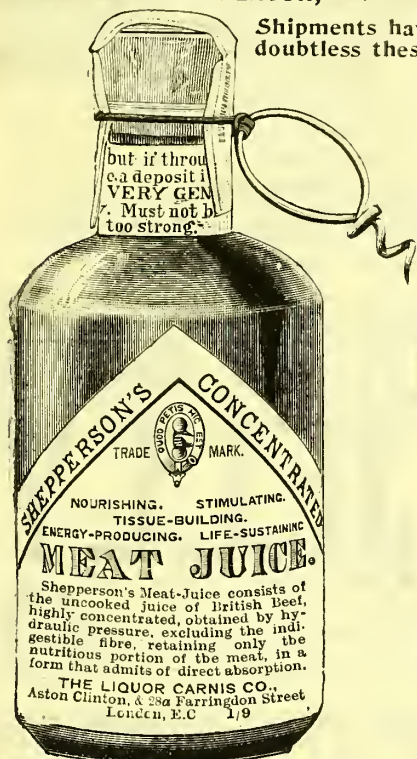
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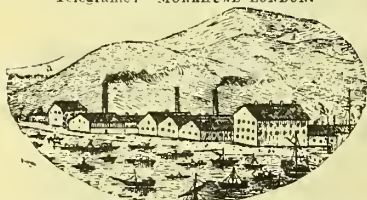
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**PEROXIDE OF HYDROGEN.**  
First introduced as a Medicine by Sir BENJAMIN W. RICHARDSON.

**ETHYLATE OF SODIUM**  
(Sir BENJAMIN W. RICHARDSON'S Formula; for removing Nævi, &c.  
In 5-oz. and 1-oz. Bottles, with elongated Stoppers for applying the Caustic, 2s. 6d. & 4s.

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For promoting the Healing of Wounds by the first intention.  
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**HEALTH**

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They cure Constipation, Biliousness, Indigestion, Fulness after Meals, Sick Headache, Heartburn, Flushings of Heat, Cold Chills, Depressed Spirits, Sleepless Nights, Liver Complaints, Palpitation of the Heart, Pains in the Back, all Nervous Disorders, &c. &c. For Females of all ages they will be found the best medicine on earth, never failing to cure all complaints and symptoms incident to the sex. With full directions. Price 9d., 1/1, and 2/3, from all Chemists, or direct from the Proprietor, **THOMAS JACKS, 8 St. George's Circus, LONDON, S.E. Small Pill, Pearl-coated, Tasteless.** All Chemists, Druggists, and Stores should stock these pills, which are being well advertised, and, as they are really good, are now in great demand.



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Prepared with a pad of absorbent cotton-wool in the middle, and a self-adhesive border. Very useful for dressing wounds, ulcers, &c., and for shielding diseased surfaces from friction. Perfection for Bed Sores. Made all shapes and sizes, in boxes of 1 dozen. Can with ease be applied by patients ignorant of the science of bandaging.

An ARMY SURGEON writes:—"I think the idea is a capital one, and have no doubt but that it will be the first dressing of the future."

Three dozen assorted (sizes inside the border: 2x2, 2x3, 3x3, 3x4, 3x5, and 4x4 inches—6 of each), on Holland, 2/6; on Waterproof Sheet, 3/-. MANUFACTURED ONLY BY

**A. DE ST. DALMAS & CO., Medical Plaster Manufacturers, LEICESTER.**

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## KAHNEMANN & KRAUSE, VIENNA,

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SPECIALLY ADAPTED FOR HOSPITAL USE.



These Rolls, which, on account of their greater convenience and cheapness, are rapidly replacing the ordinary calico bandages, are made in bleached and unbleached cottons and gauzes, from 33 inches to 36 inches wide, from which bandages of any width can be easily cut as required, the edges remaining quite firm and smooth.

Each Roll is packed separately in a box, and has attached to it a gauge divided into inches to cut by.

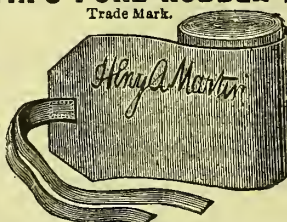
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For the Radical Cure of Varicose Veins, Ulcers, and other Diseases of the Leg.



CAUTION.—Please order Genuine Martin's Bandages, each being stamped with Dr. Martin's signature. All others are Spurious Imitations.

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| No. | PRICES.                                    | Feet   | Inches | Each |
|-----|--------------------------------------------|--------|--------|------|
| 1A. | Tain, for ankle, elbow, wrist, and forearm | 6      | 2 1/2  | 3/6  |
| 2.  | Tain, for leg below knee                   | 10 1/2 | 3      | 4/6  |
| 1B. | Tain, for leg below knee                   | 10 1/2 | 3      | 6/6  |
| 1A. | Tain, for leg and knee                     | 14     | 3      | 7/6  |
| 7B. | Tain, for leg and thigh                    | 21     | 3      | 10/6 |
| 9A. | Tain, for leg and thigh                    | 21     | 3      | 13/6 |

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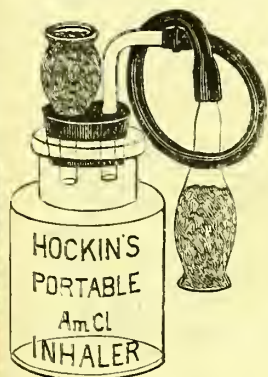
Draughtsman Shape. 3 doz. on a Card.  
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This is by far the best id. shape ever introduced.

## Enema.

Black Polished Enamelled Cut Sheets; looks almost like a Seamless Enema. In oval Paper Box, complete, 20/- doz.

The Cheapest Enema ever made.



Yields a copious and neutral gas.

In Cedar Box, with Acid and Ammonia Bottles, complete, 2/6 each.

SPECIAL LINE OF FULL-SIZED

## Wax Back Tooth Brushes.

English make. 2 = doz.; 1 gross, 23/-.

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Wholesale and Export Homœopathic Chemists.

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HOMŒOPATHIC PHARMACOPŒIA.

Tinctures, **3/3** Pilules,  
1s. size. **3/3** 1s. size.  
*Per doz.*

*You cannot beat this for Price.*

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quality, or style of putting up.*

We do not supply expensive cases which occupy a lot of room, and are often dead stock, but we have an attractive case holding 1½ doz. each Tinctures and Pilules, which we supply at

**10/- each complete.**

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Camphor Pilules ... 6d., 19 doz.; 1-, 3/3 doz.  
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All the usual Tinctures and Pilules kept in stock, and neatly boxed in half and one dozen slide outers.

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*Sole Agents—HOCKIN, WILSON & CO.*

**HOCKIN, WILSON & CO.**  
Wholesale Druggists & Druggists' Sundriesmen,  
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# BOTTLE AND GLASS

See also "CHEMISTS' AND DRUGGISTS"

## CAMPBOR SALT, ROUNDS, dark actinic green, wide mouth.

|                             |     |      |                |
|-----------------------------|-----|------|----------------|
| Ground-glass globe stoppers | 1   | 13   | 2 oz.          |
|                             | 21/ | 23/6 | 27/ per gross. |

## CAMPBOR SALT, SQUARES, dark actinic green, wide mouth.

|                             |     |      |                |
|-----------------------------|-----|------|----------------|
| Ground-glass globe stoppers | 1   | 13   | 2 oz.          |
|                             | 21/ | 23/6 | 27/ per gross. |

## CANNON ESSENCE BOTTLES, ROUND, extra heavy, for Perfumery, white flint glass.

|                               |         |       |      |       |     |      |                 |
|-------------------------------|---------|-------|------|-------|-----|------|-----------------|
| Plain                         | 1/2 oz. | 6 dr. | 1    | 1 1/2 | 2   | 3    | 4 oz.           |
| Fitted white metal sprinklers | 13/     | 14/   | 15/6 | 17/   | 18/ | 19/6 | 11/6 per gross. |
| Stopped globe head stoppers   | 14/6    | 15/6  | 16/  | 17/   | 18/ | 21/  | 22/             |

## CANNON ESSENCE SQUARES, ORDINARY SERIES, white flint glass—Good bold attractive shape—(LUNDBORG'S SQUARES).

|                               |              |       |      |       |     |      |                 |
|-------------------------------|--------------|-------|------|-------|-----|------|-----------------|
| Plain                         | Size 1/2 oz. | 6 dr. | 1    | 1 1/2 | 2   | 3    | 4 oz.           |
| Fitted white metal sprinklers | 13/          | 14/   | 15/6 | 17/   | 18/ | 19/6 | 11/6 per gross. |
| Ground-glass stoppered        | 14/6         | 15/6  | 16/  | 17/   | 18/ | 21/  | 22/             |

## CANNON ESSENCE SQUARES, EXTRA TALL SERIES, white flint glass—VERY ATTRACTIVE BOTTLE—(TALL LUNDBORG'S SQUARES).

|                               |              |       |      |       |     |      |                 |
|-------------------------------|--------------|-------|------|-------|-----|------|-----------------|
| Plain                         | Size 1/2 oz. | 6 dr. | 1    | 1 1/2 | 2   | 3    | 4 oz.           |
| Fitted white metal sprinklers | 13/          | 14/   | 15/6 | 17/   | 18/ | 19/6 | 11/6 per gross. |
| Ground-glass stoppered        | 14/6         | 15/6  | 16/  | 17/   | 18/ | 21/  | 22/             |

## CASTOR OILS, long neck, ROUND—

|                                  |        |    |     |     |    |    |      |      |      |     |             |
|----------------------------------|--------|----|-----|-----|----|----|------|------|------|-----|-------------|
| Pale green or pale blue tint     | Size 1 | 2  | 3   | 4   | 5  | 6  | 8    | 10   | 12   | 16  | 20 & 22 oz. |
| Dark blue glass or actinic green | 4/6    | 5/ | 6/6 | 7/6 | 8/ | 9/ | 10/6 | 11/6 | 12/6 | 14/ | 16/         |

## COUGH MIXTURE FLATS, panelled (essence of linseed bottles).

|                                                                                                                                                                                         |            |   |   |   |   |   |   |    |    |    |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---|---|---|---|---|---|----|----|----|-------------|
| Pale blue tint                                                                                                                                                                          | Size 1 1/2 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 & 22 oz. |
| This series stocked in pale blue glass only, but can be made to order in quantities of not less than 5 gross of a size in white flint, amber, or dark blue glass at prices as follows:— | 1 1/2      | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 & 22 oz. |

## DISPENSING BOTTLES, FLAT, plain, or graduated.

|                                                                                                                                                                                            |        |    |     |     |    |    |      |      |      |     |     |     |     |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|-----|-----|----|----|------|------|------|-----|-----|-----|-----|--------|
| Pale blue tint                                                                                                                                                                             | Size 1 | 2  | 3   | 4   | 5  | 6  | 8    | 10   | 12   | 16  | 20  | 24  | 22  | 40 oz. |
| White flint glass                                                                                                                                                                          | 4/6    | 5/ | 6/6 | 7/6 | 8/ | 9/ | 10/6 | 11/6 | 12/6 | 14/ | 16/ | 18/ | 21/ | 22/    |
| Round-edge shapes stocked in 2, 3, 4, 6, 8, 10, 12, 16 and 20 oz. sizes. In amber glass we make any size to order, in not less than 5 gross of a size at same prices as white flint glass. | 4/6    | 5/ | 6/6 | 7/6 | 8/ | 9/ | 10/6 | 11/6 | 12/6 | 14/ | 16/ | 18/ | 21/ | 22/    |

## FEEDING BOTTLES—INTERNATIONAL

The following are special lines at low prices for those of our customers who require VERY CHEAP feeding bottles. We do not supply these in less than one gross lots.

| No.                                              | Each in Paper Bag. | No.                 | Each in Paper Bag. |
|--------------------------------------------------|--------------------|---------------------|--------------------|
| 33. Green bottle, box-topped cork, white rubbers | 25/                | 37. Green bottle    | 29/                |
| 34. White "                                      | 26/6               | 38. White "         | 31/                |
| 35. Green " " " black "                          | 27/6               | 39. Green " " " " " | 32/                |
| 36. White "                                      | 29/                | 40. White "         | 34/6               |

## INTERNATIONAL SERIES IN FOLDING CARD BOXES. ATTRACTIVELY LABELLED.

|                                                                                             |                     |     |                                   |
|---------------------------------------------------------------------------------------------|---------------------|-----|-----------------------------------|
| Screw glass stoppers, black seamless teats, and 7 1/2-inch best quality black rubber tubes. |                     |     |                                   |
| No. 61. White glass bottle, white glazed earthenware unions                                 | ... without brushes | 40/ | ... with 2 brushes 44/ per gross. |
| " 62. Green "                                                                               | ...                 | 36/ | ... 42/ "                         |
| " 63. White " " " white glass unions                                                        | ...                 | 41/ | ... 45/ "                         |
| " 64. Green "                                                                               | ...                 | 39/ | ... 43/ "                         |

## "LA SPECIALITE" SERIES IN FOLDING CARD BOXES. ATTRACTIVELY LABELLED.

|                                                                                                                                                      |                     |     |                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----|-----------------------------------|
| Screw glass stoppers, black seamless teats, and 7 1/2-inch best quality black rubber tubes. Both bottles and boxes without manufacturers' names, &c. |                     |     |                                   |
| No. 65. White glass bottle, white glazed earthenware unions                                                                                          | ... without brushes | 39/ | ... with 2 brushes 43/ per gross. |
| " 66. Green "                                                                                                                                        | ...                 | 37/ | ... 41/ "                         |
| " 67. White " " " white glass unions                                                                                                                 | ...                 | 40/ | ... 44/ "                         |
| " 68. Green "                                                                                                                                        | ...                 | 38/ | ... 42/ "                         |

## FEEDING BOTTLES STRAIGHT NECK, WHITE GLAZED CAPS.

|                                                 |                |                                                 |                |
|-------------------------------------------------|----------------|-------------------------------------------------|----------------|
| No. 81. Green glass bottles, with white rubbers | 20/ per gross. | No. 83. Green glass bottles, with black rubbers | 22/ per gross. |
| " 82. White "                                   | 22/            | " 84. White "                                   | 24/            |

## "LA SPECIALITE" FEEDING BOTTLES, BENT NECK.

| No.                                                           | Per gross. | No.                                                           | Per gross. |
|---------------------------------------------------------------|------------|---------------------------------------------------------------|------------|
| No. 85. Green glass bottle, wood-top cork, with white rubbers | 21/        | No. 89. Green glass bottle, wood-top cork, with black rubbers | 23/        |
| " 86. White "                                                 | 23/        | " 90. White "                                                 | 25/        |
| " 87. Green " " " screw glass stopper, white rubbers          | 24/        | " 91. Green " " " screw glass stopper, with black rubbers     | 26/        |
| " 88. White "                                                 | 26/        | " 92. White "                                                 | 28/        |

## SEND FOR OUR NEW

|                                 |        |      |     |     |     |     |      |      |      |     |        |
|---------------------------------|--------|------|-----|-----|-----|-----|------|------|------|-----|--------|
| FLATS, white flint, short neck— | Size 1 | 2    | 3   | 4   | 5   | 6   | 8    | 10   | 12   | 16  | 20 oz. |
| For corks                       | 4/6    | 5/   | 6/6 | 7/6 | 8/  | 9/  | 10/6 | 11/6 | 12/6 | 14/ | 16/    |
| Ground-glass stoppered          | 14/6   | 15/6 | 16/ | 17/ | 18/ | 21/ | 22/  | 23/  | 24/  | 27/ | 28/    |

## FLATS, short neck, with cork ring and glass stopper.

|                   |        |    |    |     |     |     |     |     |     |     |        |
|-------------------|--------|----|----|-----|-----|-----|-----|-----|-----|-----|--------|
| Pale green glass  | Size 1 | 2  | 3  | 4   | 5   | 6   | 8   | 10  | 12  | 16  | 20 oz. |
| White flint glass | 7/     | 8/ | 9/ | 10/ | 11/ | 12/ | 13/ | 14/ | 15/ | 16/ | 18/    |

## FLATS, long neck—Fig. 49.

|                  |        |    |    |     |     |     |     |     |     |     |        |
|------------------|--------|----|----|-----|-----|-----|-----|-----|-----|-----|--------|
| Pale green glass | Size 1 | 2  | 3  | 4   | 5   | 6   | 8   | 10  | 12  | 16  | 20 oz. |
| White flint      | 7/     | 8/ | 9/ | 10/ | 11/ | 12/ | 13/ | 14/ | 15/ | 16/ | 18/    |

## FURNITURE POLISH BOTTLES, pale green glass.

|                                      |        |     |     |     |     |     |     |     |     |     |        |
|--------------------------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| With mouths for corks                | Size 1 | 2   | 3   | 4   | 5   | 6   | 8   | 10  | 12  | 16  | 20 oz. |
| Fitted glass stoppers and cork rings | 5/6    | 6/6 | 7/  | 8/  | 9/  | 10/ | 11/ | 12/ | 13/ | 14/ | 16/    |
| Fitted boxwood-topped corks          | 10/    | 11/ | 12/ | 13/ | 14/ | 15/ | 16/ | 17/ | 18/ | 19/ | 20/    |

## FURNITURE POLISH BOTTLES, panelled, pale green glass—WIDE MOUTH.

|                                      |        |     |     |     |     |     |     |     |     |     |        |
|--------------------------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| With mouths for corks                | Size 1 | 2   | 3   | 4   | 5   | 6   | 8   | 10  | 12  | 16  | 20 oz. |
| Fitted glass stoppers and cork rings | 5/6    | 6/6 | 7/  | 8/  | 9/  | 10/ | 11/ | 12/ | 13/ | 14/ | 16/    |
| Fitted boxwood-topped corks          | 10/    | 11/ | 12/ | 13/ | 14/ | 15/ | 16/ | 17/ | 18/ | 19/ | 20/    |

## GLYCERINE BOTTLES, white flint glass—

|                                                                                                                     |        |   |   |   |   |   |   |    |    |    |        |
|---------------------------------------------------------------------------------------------------------------------|--------|---|---|---|---|---|---|----|----|----|--------|
| Rounds with round shoulder                                                                                          | Size 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 oz. |
| Ovals, made extra heavy                                                                                             | 1 1/2  | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 oz. |
| Glycerine panel flats or squares, white glass, 4 sides panelled, and lettered "Distilled Glycerine." Fluid capacity | 1 1/2  | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 oz. |

# BREFFIT'S

(AIRE & CALDER BOTTLE CO.)

EVERY CLASS AND DESCRIPTION



**WARE BUYERS.****DIARY," 1895, Pages 453 to 465.****JERSEY COLOGNES** white flint glass, square—

|                               | Size | 1    | 2   | 4 oz.           |
|-------------------------------|------|------|-----|-----------------|
| Plain                         | ...  | 7/   | 9/  | 11 6 per gross. |
| Ground-glass stoppered        | ...  | 16/  | 18/ | 21 6 "          |
| Fitted white metal sprinklers | ...  | 15/6 | 18/ | 21 "            |

**KALIS, OR WIDE-MOUTH FRENCH VIALS**, white flint glass—

|                             | Size | 1 oz. | 6 dr. | 1   | 1 1/2 | 2    | 3   | 4    | 6   | 8   | 10   | 12   | 16 oz.         |
|-----------------------------|------|-------|-------|-----|-------|------|-----|------|-----|-----|------|------|----------------|
| With mouths for corks       | ...  | 3/3   | 3/3   | 3/6 | 4/    | 4/6  | 5/3 | 6/   | 7/  | 8/6 | 11/  | 12/6 | 16/ per gross. |
| Fitted boxwood-topped corks | ...  | 8/    | 8/3   | 8/3 | 9/    | 9/6  | 11/ | 11/6 | 12/ | 15/ | 18/6 | 19/  | 26/ "          |
| Ground-glass stoppered      | ...  | 14/   | 14/   | 14/ | 15/   | 15/6 | 16/ | 16/  | 22/ | 23/ | 26/  | 30/  | 35/ "          |
| With mouths for corks       | ...  | ...   | ...   | ... | ...   | ...  | ... | ...  | 20  | 24  | 30   | 36   | 40 oz.         |
| Fitted boxwood-topped cork  | ...  | ...   | ...   | ... | ...   | ...  | ... | ...  | 21/ | 24/ | 27/  | 34/  | 34/ per gross. |
| Ground-glass stoppered      | ...  | ...   | ...   | ... | ...   | ...  | ... | ...  | 27/ | 31/ | 34/  | 41/  | 42/ "          |
|                             | ...  | ...   | ...   | ... | ...   | ...  | ... | ...  | 41/ | 44/ | 49/  | 56/  | 58/ "          |

**KALIS, OR WIDE-MOUTH FRENCH VIALS**, with bright screw metal caps—

|                                                              | Size | 1    | 1 1/2 | 2    | 3    | 4   | 6   | 8   | 10  | 12  | 16  | 20 oz.         |
|--------------------------------------------------------------|------|------|-------|------|------|-----|-----|-----|-----|-----|-----|----------------|
| Fitted white metal caps                                      | ...  | 9/   | 10/   | 11/  | 12/  | 13/ | 15/ | 16/ | 20/ | 22/ | 27/ | 30/ per gross. |
| Fitted brilliantly-coloured lacquered caps, assorted colours | ...  | 10/6 | 11/6  | 12/6 | 13/6 | 15/ | 17/ | 18/ | 22/ | 24/ | 30/ | 33/ "          |

**LAVERDERS**, long neck, flat, for corks—

|                   | Size | 1  | 1 1/2 | 2   | 3  | 4   | 6   | 8 oz.           |
|-------------------|------|----|-------|-----|----|-----|-----|-----------------|
| Pale green glass  | ...  | 5/ | 6/    | 6/6 | 7/ | 7/6 | 9/  | 10/6 per gross. |
| White flint glass | ...  | 6/ | 6/6   | 7/6 | 8/ | 10/ | 12/ | 14/ "           |

**LAVERDERS**, panelled, flat, globe neck—

|                   | Size | 1 dram. | 2 dram. | 1   | 1 1/2 | 2  | 3   | 4 oz.           |
|-------------------|------|---------|---------|-----|-------|----|-----|-----------------|
| White flint glass | ...  | 3/6     | 4/6     | 5/6 | 6/    | 7/ | 7/6 | 10/6 per gross. |

**LIMES, OR ROUND-SHOULDERED FRENCH VIALS**, narrow mouth for corks—

|                     | Size | 1 dr. | 2 dr. | 1 oz. | 6 dr. | 1   | 1 1/2 | 2   | 3   | 4   | 5   | 6   | 8   | 10   | 12   | 16  | 20 oz.         |
|---------------------|------|-------|-------|-------|-------|-----|-------|-----|-----|-----|-----|-----|-----|------|------|-----|----------------|
| Pale blue glass     | ...  | 3/    | 3/    | 3/3   | 3/3   | 3/6 | 4/    | 4/6 | 5/3 | 6/  | 7/  | 7/6 | 8/6 | 11/  | 12/6 | 16/ | 18/ per gross. |
| White flint glass   | ...  | 3/    | 3/    | 3/3   | 3/3   | 3/6 | 4/    | 4/9 | 5/9 | 6/6 | 7/6 | 7/6 | 9/  | 12/6 | 13/  | 18/ | 21/ "          |
| Actinic green glass | ...  | 3/    | 3/    | 3/3   | 3/3   | 3/6 | 4/    | 4/9 | 5/9 | 6/6 | 7/6 | 7/6 | 9/  | 12/6 | 13/  | 18/ | 21/ "          |

IN AMBER GLASS WE MAKE TO ORDER IN NOT LESS THAN 5 Gross of a size, at same prices as quoted for White Flint Glass.

Any of the Limes can be washed and fitted with box-topped corks at the following extra prices—

|  | Size | 1 dr. | 2 dr. | 1 oz. | 6 dr. | 1   | 1 1/2 | 2  | 3  | 4  | 5   | 6   | 8  | 10 | 12 | 16 | 20 oz.        |
|--|------|-------|-------|-------|-------|-----|-------|----|----|----|-----|-----|----|----|----|----|---------------|
|  | ...  | 2/    | 2/    | 2/    | 2/6   | 2/6 | 2/6   | 3/ | 3/ | 3/ | 3/6 | 3/6 | 4/ | 4/ | 5/ | 5/ | 5/ per gross. |

Extra charge for washing and fitting with ordinary corks, 1 to 8 oz.=1/6 per gross. 10 to 40 oz.=2/6 per gross.

**LUBINS, OR OLDHAM SQUARES** thick for perfumery, white flint glass—

|                                | Size | 1 oz. | 6 dr. | 1   | 1 1/2 | 2    | 3   | 4 oz.          |
|--------------------------------|------|-------|-------|-----|-------|------|-----|----------------|
| With mouths for corks, Fig. 71 | ...  | 5/6   | 6/    | 6/6 | 7/    | 7/6  | 9/  | 10/ per gross. |
| Ground-glass stoppered, " 71A  | ...  | 15/   | 15/   | 16/ | 16/6  | 17/6 | 21/ | 24/ "          |
| Fitted white metal sprinklers  | ...  | 13/   | 14/   | 15/ | 16/6  | 17/6 | 19/ | 21/ "          |

**MAGNESIAS**, white flint glass, black capped—

|  | Size | 1   | 2   | 3   | 4    | 6   | 8 oz.          |
|--|------|-----|-----|-----|------|-----|----------------|
|  | ...  | 7/6 | 8/6 | 11/ | 11/6 | 13/ | 16/ per gross. |

**MALT EXTRACT BOTTLES** in amber or vegetable-green glass—

|                                  | Fluid capacity | 5   | 6 1/2 | 8    | 10   | 12   | 16  | 20 oz.         |
|----------------------------------|----------------|-----|-------|------|------|------|-----|----------------|
| Oval shape flattened, wide mouth | ...            | 10/ | 11/6  | 13/6 | 15/6 | 17/6 | 19/ | 21/ per gross. |

**MEASURES**, glass, punted bottoms, and accurately graduated, cylindrical, or conical—Fig. 79, 79B.

|  | Size | 1   | 2   | 3   | 4  | 6   | 8  | 10  | 12 | 16 | 20 | 24   | 32  | 40 oz.       |
|--|------|-----|-----|-----|----|-----|----|-----|----|----|----|------|-----|--------------|
|  | ...  | 3/6 | 3/6 | 4/3 | 5/ | 5/6 | 6/ | 6/6 | 8/ | 8/ | 9/ | 10/6 | 12/ | 13/ per doz. |

**MEASURES** graduated in accordance with Board of Trade standards, as required by the *Weights and Measures Act, 1878*, and bearing the Government Inspector's mark of verification—

|  | Size | 1   | 2   | 3   | 4   | 6  | 8   | 10 | 12   | 16  | 20  | 24   | 32  | 40 oz.       |
|--|------|-----|-----|-----|-----|----|-----|----|------|-----|-----|------|-----|--------------|
|  | ...  | 5/6 | 5/6 | 6/6 | 7/6 | 8/ | 8/6 | 9/ | 10/6 | 11/ | 12/ | 13/6 | 15/ | 18/ per doz. |

**MEXICAN FLATS**—Fig. 87.

|                   | Size | 1   | 1 1/2 | 2    | 3   | 4    | 6   | 8 oz.          |
|-------------------|------|-----|-------|------|-----|------|-----|----------------|
| White flint glass | ...  | 6/  | 7/    | 7/6  | 9/  | 10/  | 12/ | 14/ per gross. |
| Blue opal glass   | ...  | 8/6 | 9/    | 10/6 | 12/ | 14/6 | 16/ | 18/6 "         |
| White opal glass  | ...  | 8/6 | 9/    | 10/6 | 12/ | 14/6 | 16/ | 18/6 "         |

**OIL BOTTLES**, with funnel stoppers and caps, hand made, white flint glass, punted—

|                        | Size | 1 pint | 1 1/2 pint | quart.         |
|------------------------|------|--------|------------|----------------|
| With glass or tin caps | ...  | 20/6   | 24/6       | 31/ per dozen. |

Gold labelling, 3/ per dozen extra. Engraved labels, 4/6 per dozen extra.

**OVALS**, white flint glass—

|                                    | Size | 1 oz. | 6 dr. | 1   | 1 1/2 | 2    | 3    | 4    | 5    | 6    | 8    | 10   | 12   | 16   | 20 oz.         |
|------------------------------------|------|-------|-------|-----|-------|------|------|------|------|------|------|------|------|------|----------------|
| With mouths for corks              | ...  | 4/6   | 5/    | 5/6 | 6/6   | 7/   | 8/   | 9/   | 9/   | 9/   | 10/  | 11/  | 12/  | 16/  | 19/ per gross. |
| With glass stoppers and cork rings | ...  | 7/6   | 8/    | 9/  | 9/6   | 10/6 | 11/6 | 11/6 | 11/6 | 11/6 | 12/6 | 13/6 | 14/6 | 18/6 | 23/ per gross. |
| Ground-glass stoppered             | ...  | 14/6  | 15/   | 15/ | 15/6  | 16/  | 17/  | 18/  | 21/  | 21/  | 22/  | 28/  | 30/  | 34/  | 40/ "          |

**ILLUSTRATED PRICE LIST.****PANEL FLATS**, pale blue or green glass—As Fig. 106.

|                          | Size | 1/2 oz. | 6 dr. | 1    | 1 1/2 | 2    | 3    | 4   | 5   | 6   | 8   | 10  | 12  | 16  | 20 oz. |            |
|--------------------------|------|---------|-------|------|-------|------|------|-----|-----|-----|-----|-----|-----|-----|--------|------------|
| With mouths for corks... | ...  | 4/6     | 5/0   | 5/6  | 6/    | 6    | 8    | 9/  | 9   | 9   | 11/ | 16/ | 17/ | 22/ | 27/    | per gross. |
| Ground-glass stoppered   | ...  | 13/6    | 14/   | 14/6 | 15/   | 15/6 | 16/6 | 17/ | 22/ | 24/ | 30/ | 31/ | 37/ | 45/ | "      | "          |

**POISONS**, SEXTAGON SHAPE, fluted, lettered "NOT TO BE TAKEN," dark blue or Actinic green glass—

|                        | Size | 2 dr. | 1 oz. | 6 dr. | 1   | 1 1/2 | 2    | 3   | 4   | 5   | 6   | 8    | 10  | 12  | 16  | 20 oz.     |
|------------------------|------|-------|-------|-------|-----|-------|------|-----|-----|-----|-----|------|-----|-----|-----|------------|
| With mouths for corks  | ...  | 3/9   | 4/    | 4/6   | 5/  | 6/    | 6/6  | 7/  | 8/  | 9/  | 11/ | 14/6 | 16/ | 18/ | 22/ | per gross. |
| Ground-glass stoppered | ...  | 13/   | 14/   | 14/6  | 15/ | 16/   | 16/6 | 17/ | 18/ | 20/ | 22/ | 27/  | 30/ | 32/ | 41/ | "          |

**POMADES**, wide-mouth, moulded, white flint rounds—

|                                   | Size | 1    | 1 1/2 | 2    | 3   | 4    | 6   | 8    | 10   | 12  | 16  | 20 oz.         |
|-----------------------------------|------|------|-------|------|-----|------|-----|------|------|-----|-----|----------------|
| With mouths for corks             | ...  | 4/6  | 5/    | 6/   | 6/6 | 8/   | 9/  | 10/6 | 12/6 | 16/ | 18/ | 27/ per gross. |
| Ground-glass stoppered, Fig. 115A | ...  | 14/6 | 15/   | 16/6 | 19/ | 21/  | 22/ | 24/  | 29/  | 32/ | 35/ | 50/ "          |
| Fitted box-topped corks           | ...  | 8/6  | 9/    | 11/  | 11/ | 14/6 | 17/ | 18/  | 20/  | 25/ | 28/ | 40/ "          |

**ROUNDS**, hand-made (SHOP ROUNDS), white flint glass—

|                                                | Size | 2 dr. | 1 oz. | 1   | 1 1/2 | 2    | 3   | 4   | 5   | 6    | 8   | 10  | 12  | 16 oz.         |
|------------------------------------------------|------|-------|-------|-----|-------|------|-----|-----|-----|------|-----|-----|-----|----------------|
| Plain for corks, narrow or wide mouth          | ...  | 6d.   | 6d.   | 8d. | 8d.   | 10d. | 1/2 | 1/3 | 1/7 | 1/9  | 1/9 | 2/  | 2/3 | 2/6 per dozen. |
| Narrow mouth, ground-glass stoppered, Fig. 131 | ...  | 1/2   | 1/3   | 1/4 | 1/7   | 1/7  | 1/9 | 2/  | 2/5 | 3/2  | 3/6 | 3/8 | 4/  | 4/9 "          |
| Wide mouth, ground-glass stoppered, Fig. 131A  | ...  | 1/4   | 1/7   | 1/8 | 1/9   | 1/9  | 2/5 | 3/  | 3/8 | 3/10 | 4/  | 4/  | 4/  | 4/9 "          |
| Plain for corks, narrow or wide mouth          | ...  | ...   | ...   | ... | ...   | ...  | ... | ... | ... | ...  | ... | ... | ... | ...            |
| Narrow mouth, ground-glass stoppered           | ...  | ...   | ...   | ... | ...   | ...  | ... | ... | ... | ...  | ... | ... | ... | ...            |
| Wide mouth, ground-glass stoppered             | ...  | ...   | ...   | ... | ...   | ...  | ... | ... | ... | ...  | ... | ... | ... | ...            |

**LABELLING** ... 3/- per dozen.**ENGRAVED LABELS** ... 4/6 per dozen.**VIALS**, DISPENSING, plain, white flint glass, tall, medium, or squat—

|                        | Size | 1 dr. | 1 oz. | 1   | 1 1/2 | 2   | 3   | 4   | 6   | 8 oz.          |
|------------------------|------|-------|-------|-----|-------|-----|-----|-----|-----|----------------|
| Plain                  | ...  | 2/6   | 2/9   | 3/  | 3/3   | 3/6 | 4/3 | 4/9 | 5/  | 7/6 per gross. |
| Ground-glass stoppered | ...  | 12/   | 12/6  | 13/ | 13/   | 13/ | 14/ | 15/ | 14/ | 21/ per gross. |

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LOOK AT THESE PRICES.

|                                   |     |             |     |          |     |
|-----------------------------------|-----|-------------|-----|----------|-----|
| Best Dra's Rubber, Ordinary Style | ... | Our Fig. 3. | ... | Per doz. | 2/- |
| „ Black „ „ „                     | ... | „ „ 1.      | ... | „ „      | 2/6 |
| „ Drab „ Moulded Plug Shape       | ... | „ „ 2.      | ... | „ „      | 2 6 |
| „ „ „ Registered New Style        | ... | „ „ 4.      | ... | „ „      | 3/3 |

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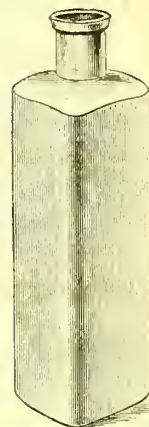
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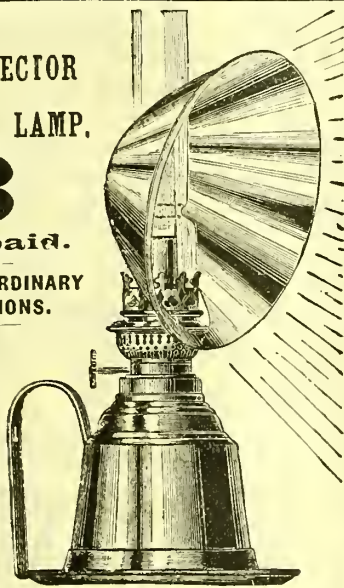
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| 1d. Vaseline .. | 1 11       |
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| Lint. 1 3, 1 1/8, 2 8 lb. |  |

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| „ 2 4, „             | 1/1                           |
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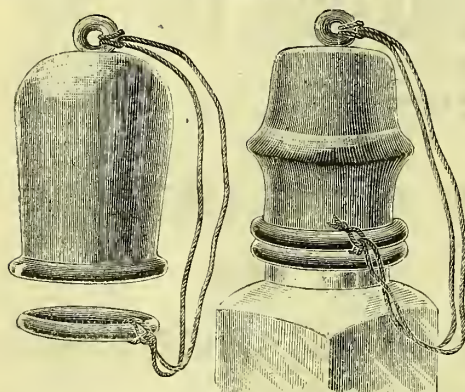
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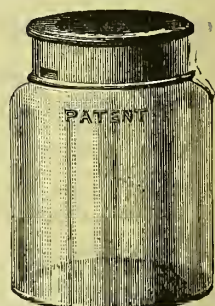
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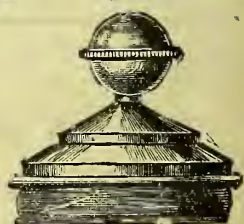
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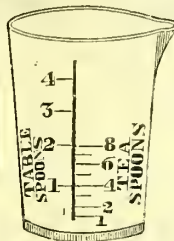
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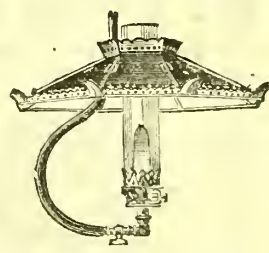
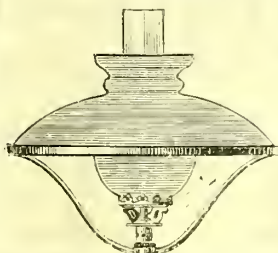
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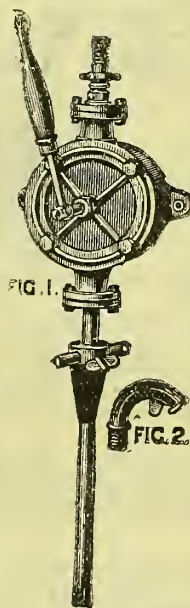
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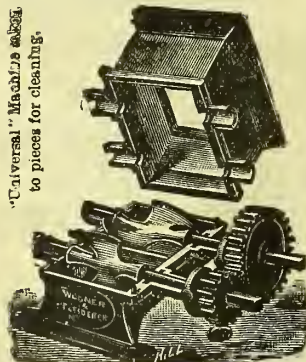


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Are the most digestible, flexible, and elegant in the market, and are fast replacing all competitors. The Cachets are made to hold from 3 to 18 grains Quinine or Salicylic Acid.  
"MORSTADT" CACHET CLOSING APPARATUS, to easily and speedily close 12 Cachets at one operation, from 12/- to 30/-.  
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Office hours, 10 to 4; Saturdays, 10 to 2. P.O.O.'s (including postage, and crossed "London and Westminster Bank") with orders, payable to

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York, ....., 1737.

“ Mr. REUBEN BUTLER.

..... they hae mair medicines  
in this town of York than wad  
cure a' Scotland.....

JEANNIE DEANS.”

When Scott wrote the “ Heart of Midlothian ” (1818), in which the delightful letter, from which the above is an extract, occurs, the drug house of “ JOHN DALES ” had been in existence for 38 years, and was, no doubt, responsible for the plethora of “ medicines ” with which the great novelist associates the city of the “ muckle kirk ” (to use another of Jeannie’s picturesque definitions).

BLEASDALE LIMITED is the direct lineal descendant of JOHN DALES, and YORK is still famous for medicines “ gude for complaints,” although the “ mills whilk have na’ muckle wheels nor mill-dams, but gang by the wind ” (referred to in the same letter), are fast becoming things of the past.



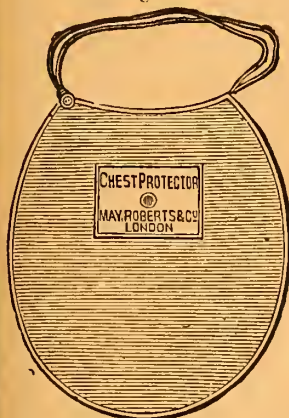
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Fig. 1



## CHEST PROTECTORS.

*Felt, as Fig. 1, scarlet, Best Quality—*

|          |                                    |                                    |                                     |                                      |                           |                               |
|----------|------------------------------------|------------------------------------|-------------------------------------|--------------------------------------|---------------------------|-------------------------------|
| Nos.     | 0                                  | 1                                  | 2                                   | 3                                    | 4                         | 5                             |
| Size     | $8\frac{1}{2} \times 7\frac{1}{4}$ | $9\frac{1}{2} \times 8\frac{1}{4}$ | $10\frac{3}{4} \times 9\frac{3}{4}$ | $11\frac{3}{4} \times 10\frac{3}{4}$ | $13\frac{1}{2} \times 12$ | $15\frac{1}{2} \times 14$ in. |
| Per doz. | 4/9                                | 6/                                 | 7/9                                 | 9/3                                  | 11/                       | 16/6                          |

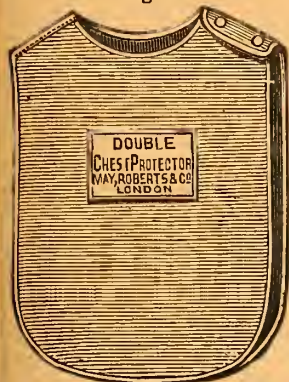
*Felt, Grey (Natural Wool), as Fig. 1—*

|          |                                    |                                    |                                     |                                      |                               |
|----------|------------------------------------|------------------------------------|-------------------------------------|--------------------------------------|-------------------------------|
| Nos.     | 0                                  | 1                                  | 2                                   | 3                                    | 4                             |
| Size     | $8\frac{1}{2} \times 7\frac{1}{4}$ | $9\frac{1}{2} \times 8\frac{1}{4}$ | $10\frac{3}{4} \times 9\frac{3}{4}$ | $11\frac{3}{4} \times 10\frac{3}{4}$ | $13\frac{1}{2} \times 12$ in. |
| Per doz. | 4/9                                | 6/                                 | 7/9                                 | 9/3                                  | 11/                           |

*Flannel, as Fig. 1, lined with Chamois leather—*

|          |                                    |                                          |                                     |                                          |
|----------|------------------------------------|------------------------------------------|-------------------------------------|------------------------------------------|
| Nos.     | 0                                  | 1                                        | 2                                   | 3                                        |
| Size     | $8\frac{1}{2} \times 7\frac{1}{4}$ | $9\frac{1}{2} \times 8\frac{1}{4}$       | $10\frac{3}{4} \times 9\frac{3}{4}$ | $11\frac{3}{4} \times 10\frac{3}{4}$ in. |
| Per doz. | 4/6                                | 5/6                                      | 8/9                                 | 11/                                      |
| Nos.     | 4                                  | 5                                        |                                     |                                          |
| Size     | $13\frac{1}{2} \times 12$          | $15\frac{1}{2} \times 13\frac{1}{2}$ in. |                                     |                                          |
| Per doz. | 14/                                | 18/                                      |                                     |                                          |

Fig. 2.



## CHEST PROTECTORS.

*Felt, as Fig. 2, double, for the chest and back, scarlet, Best Quality—*

|          |               |                          |                                      |                           |                               |
|----------|---------------|--------------------------|--------------------------------------|---------------------------|-------------------------------|
| Nos.     | 1             | 2                        | 3                                    | 4                         | 5                             |
| Size     | $11 \times 8$ | $12 \times 9\frac{1}{2}$ | $13\frac{1}{2} \times 10\frac{1}{2}$ | $15 \times 11\frac{1}{2}$ | $16\frac{1}{2} \times 14$ in. |
| Per doz. | 15/           | 18/                      | 22/                                  | 26/                       | 36/                           |

*Felt, Grey (Natural Wool), as Fig. 2—*

|          |               |                          |                                      |                           |                               |
|----------|---------------|--------------------------|--------------------------------------|---------------------------|-------------------------------|
| Nos.     | 1             | 2                        | 3                                    | 4                         | 5                             |
| Size     | $11 \times 8$ | $12 \times 9\frac{1}{2}$ | $13\frac{1}{2} \times 11\frac{1}{2}$ | $16\frac{1}{2} \times 14$ | $16\frac{1}{2} \times 14$ in. |
| Per doz. | 15/           | 18/                      | 22/                                  | 26/                       | 36/                           |

*Flannel, as Fig. 2, for chest and back, lined with Chamois leather—*

|          |                         |                                     |                |                                      |                               |
|----------|-------------------------|-------------------------------------|----------------|--------------------------------------|-------------------------------|
| Nos.     | 1                       | 2                                   | 3              | 4                                    | 5                             |
| Size     | $9\frac{1}{2} \times 8$ | $11\frac{1}{2} \times 9\frac{1}{2}$ | $13 \times 11$ | $14\frac{1}{2} \times 12\frac{1}{2}$ | $16\frac{1}{2} \times 14$ in. |
| Per doz. | 13/                     | 17/6                                | 22/            | 29/                                  | 37/                           |

Fig. 1.



## INDIA-RUBBER WATER BAGS.

*For the Chest, Feet, or Stomach, Fig. 1—*

|                              |          |                       |                 |
|------------------------------|----------|-----------------------|-----------------|
| Plain, 10 in. x 8 in. ... .. | each 3/9 | Scarlet Covers ... .. | each extra 10d. |
| 12 in. x 6 in. ... ..        | " 3/5    | " ... ..              | " 10d.          |
| 12 in. x 8 in. ... ..        | " 4/6    | " ... ..              | " 11d.          |
| 12 in. x 10 in. ... ..       | " 5/     | " ... ..              | " 1/1           |
| 14 in. x 8 in. ... ..        | " 5/     | " ... ..              | " 1/1           |
| 14 in. x 10 in. ... ..       | " 5/9    | " ... ..              | " 1/2           |
| 16 in. x 12 in. ... ..       | " 7/6    | " ... ..              | " 1/7           |

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therefore BEST.

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DO NOT LET YOUR CHILD DIE!

Fennings' Children's Powders Prevent Convulsions; are Cooling and Soothing.

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For Children Cutting their Teeth, to Prevent Convulsions.

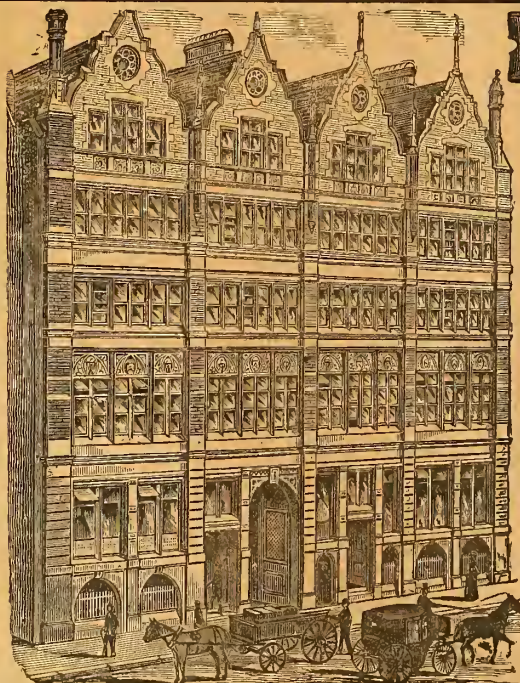
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SATURDAY, MARCH 9, 1895

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5.—£800.—LONDON, S.E.—Dispensing and Retail Business, well situate in a middle-class neighbourhood; returns about £800 yearly, *profits above the average*; the shop is well stocked and nicely fitted; full investigation is invited; good house; price about £700.

6.—£350.—LONDON, W.C.—Dispensing and Retail; good nucleus for a profitable business, the neighbourhood having been recently greatly improved by new street; present returns £6 to £7 per week under an assistant; single-fronted shop, comfortable house; low rental, on lease; price about £230; the business has been established 60 or 70 years.

7.—£400.—LONDON, W.C.—Lock-up shop, situate in a good position for business; present returns about £400; single-fronted shop, well fitted, and attractive; the Business is profitable, and can be very much extended by an energetic man; about £250 required.

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12.—£700.—KENT (Garrison Town).—Ready-money Retail Business; returns between £600 and £700, with very good profit; ample scope for agricultural business, if desired; well-fitted shop; good house; price about £550.

13.—ON A MAIN LINE OF RAIL.—Easy distance from town; established Retail and Dispensing Business; returns between £800 and £900 yearly; *exceptionally large profits*; good-sized house; investigation invited; about £750 required.

14.—£900.—MIDLAND TOWN.—Ready-money Retail, situate in a good-class district; returns between £800 and £900 yearly; *very good net profits*; particulars on application; price about £750.

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Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the special attention of a London Agent.

**SPECIAL NOTICE.**—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

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## SALES BY AUCTION.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

Re S. T. MILL'S ESTATE.

HOLSWORTHY TOWN, PYWORTHY, AND NORTH TAMERTON.

**MR. KIVELL** will sell by Auction at the Stanhope Hotel, Holsworthy, at 3 P.M. of the 22nd March, 1895, several important Freehold, centrally-situated Business Houses and Shops, consisting of the "New Inn" Public House, Cottages and Gardens adjoining, long-established Chemist's, Druggist's, Wine and Spirit and Grocery Shop and Stores (with the goodwill and stock-in-trade), Drapery and Outfitters, Saddler's, and Harness-maker's, and Glass and China Merchant's Shops, a Leasehold Villa Residence, and Stores and Stables, Holsworthy Market Share and small properties in Pyworthy and North Tamerton.

For further particulars and plans see posters, and apply to the Auctioneer, or to

PETER & SONS, Solicitors, Launceston, or  
CECIL BRAY & PETER, Solicitors, Holsworthy.

Dated February 28, 1895.

## TENDERS.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

ST. MARY'S HOSPITAL, LONDON, W.

CONTRACTS FOR DRUGS, CHEMICALS, DRESSINGS, &c.

**THE** Board of Management is prepared to receive Tenders for the supply of Drugs, Chemicals, Dressings, &c., for the three months ending July 15 next. Forms of Tender can be obtained at the Secretary's office.

Tenders must be delivered, in sealed envelopes, by 10 o'clock A.M. on Monday, 25th inst., addressed to the undersigned, and marked "Tender for Drugs" or "Tender for Dressings." The Tenders must be accompanied by samples of certain articles as required.

The Board does not bind itself to accept the lowest or any tender.

By order,

March 9, 1895.

THOMAS RYAN, Secretary.



# F. J. BRETT

Valuer, 60 St. Stephen's Road, LEICESTER.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

**BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE.**

**NO CHARGE TO BUYERS**

**STOCKTAKING UNNECESSARY.**—Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

F. J. BRETT is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

**STOCKS AND FIXTURES BOUGHT FOR CASH.**

£660 returns; net profit over £300; good-class Retail; price £600; South Coast.

£350 returns.—**LANCS.**—Half net profit; price £220.

£250 returns; greatly neglected; best position of Midland town; price £150.

£1,000 returns; net profit £370; Dispensing and Light Retail; S.W.; price £850.

£1,350.—**NORFOLK.**—Good old-established Country Retail; net profit £350; goodwill £150; stock and fixtures at valuation.

# BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

30 JEWRY STREET, ALDGATE, E.C.

Established 1870

**NOTICE TO VENDORS.**

Having been for the past 25 years solely engaged in the Sale, Purchase, and Valuation of Chemists' Businesses, we have, as Transfer Agents and Valuers, the largest experience of any in the Trade. VENDORS placing their businesses in our hands for transfer, may in all cases rely upon a speedy sale being effected without undue publicity. Terms forwarded post free on application. No sale, no charge.

**BUSINESSES WANTED.**

**NO CHARGE TO PURCHASERS.**

1.—**DEVON.**—Fashionable health resort; Retail and Dispensing Business, in one of the best positions; returns nearly £1,000; rent £65; let off, £24; handsome shop, well stocked; price £650.

2.—**SURREY.**—Young, energetic man required as Partner, to take sole charge of business; income £3 weekly, which will considerably increase; cash £250.

3.—**CHESHIRE.**—First-class Retail and Dispensing Business, making a net profit of £550 yearly; large corner shop, handsomely fitted and well stocked; price £1,400, or offer.

4.—**GREAT YARMOUTH.**—Light Retail and Prescribing Business, in excellent unopposed position; returns £500; shop well fitted and stocked; price £250, value of stock and fittings only.

5.—**MIDLANDS.**—Unopposed Village Business; returns £700; net profit £250; rent £25; good house and garden; price £350; Post-office pays £50 clear.

6.—**LONDON, S.W.**—Light Retail and Dispensing Business, returning £883 under management; principal did £1,600; excellent position, main thoroughfare; price £700.

7.—**LONDON, W.**—An old-established Retail and Prescribing Business; returns £450; net profit £200; rent £50; good house; price £300, or valuation; a very profitable concern.

**VALUATIONS.**

**SPECIAL ATTENTION** is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

# THOMAS TOMLINSON & SON

Chemists' Transfer Agents, and Valuers,

9 NEW CANNON ST., MANCHESTER,

Have enquiry, amongst others smaller, for a Business ranging from £1,000 to £1,500 returns, by immediate intending purchaser.

Have Businesses for disposal as follows, with approximate amounts required:—

High-class Pharmacy, Manchester (outskirts); Portsmouth, £240; Co. Durham, £200; St. Helens, £125; Manchester, £400; Dalton-in-Furness, £380; Maidenhead, £75; Liverpool, £250, £200, £275; Cardigan, £500; Heywood, £530; Hyde, £120; Wallend, £350; Leicester, £700; Scarborough, £150; Derby, £125; Okeothorpes, £300; Redditch, £150; Torquay, £280; Birmingham, £400 and £200; Market Drayton, £500; Newton Abbott, £300; Paddington, £200; Accrington, £150; Kensington, £800; Rnfield, £425; Camden Town, £600; Manchester, £150; Bsex, £1,000; Stockton-on-Tees, £200; Huddersfield, £800; Urmoston, £350; Barnsley, £120; and others confidential.

**NO CHARGE TO PURCHASERS.**

Telegraphic Address—"TOMTOM."

# JUDD & MANNERS,

(SUCCESSORS TO CROCKER & CO.)

Trade Valuers, Transfer Agents, & Accountants,  
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(ADJOINING CANNON STREET STATION).

**LONDON, W.**—Retail, Dispensing, and Prescribing trade; returns £400; very profitable; low rent; good house; price £225. We strongly recommend this to a young man making a start.

**YORKSHIRE.**—Cash Retail, Dispensing, and Prescribing trade; returns £1,500; price £1,100, or valuation terms can be arranged.

**MIDDLESEX.**—An old-established Light Retail and Dispensing Business; returns £1,400; price £1,200, or valuation can be arranged.

**SURREY.**—Light Retail and Prescribing trade; returns £400; price £200; good position in main road.

**KENT.**—Market town; Cash Retail and Prescribing trade; returns £700, at full prices; good house, well situated in main street; price £600.

**HOME COUNTY** (near London).—Light Retail and Dispensing Business, in first-class position for a pushing trade; returns £600; price £400; long lease at low rent

**VALUATIONS PERSONALLY CONDUCTED.**

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(Next Door to Bow Church),

**CHEMISTS' VALUERS,**  
Transfer Agents & Partnership Negotiators.

25 YEARS' PRACTICAL EXPERIENCE.

The only Transfer Agency in England conducted by Pharmaceutical Chemists. We pay particular attention to Valuations.

**NEAR LONDON.**—A Mixed Business; large, convenient shop and good house; long lease; net profits £450; price and particulars on application.

**MIXED BUSINESS** in Wales; well-fitted and ample working stock; good dwelling-house, with private entrance; very low rent; price £500, or valuation.

**AN OPENING** occurs for a Partner in an old-established Country Wholesale Drug Firm; applicant must have had experience in the Wholesale, and be prepared to devote the whole of his time to the business; capital required, £2,000.

**SPLENDID POSITION** in the Borough; Cash Retail and Dispensing Business; good shop with bold frontage; convenient house, part let-off, covering two-thirds of rent; returns about £700; price £525.

**GENTLEMAN** requires a Partnership in a sound Wholesale concern; references exchanged; capital at command, £1,000.

**CONSULTATIONS FREE.**

Businesses examined in Town or Country for Vendors or Purchasers, and an opinion on value given for a moderate and inclusive fee.

Terms for Valuations or Transfer supplied

**NO CHARGE TO PURCHASERS.**

Offices — 56 CHEAPSIDE, LONDON.

# BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

**FOR** immediate Disposal, in the county of Norfolk, old-established Retail Business; no opposition; comfortable house, with garden; low rent; valuation. Apply, Smith & Sons, Wholesale Druggists, Norwich.

**£1,200.**—A first-class Retail and Dispensing Business, in one of the best provincial towns in the West of England; returns £1,450. "Tabloidy." Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MUST** be Sold, Prescribing and General Light Retail Business, in main road; Lancashire town; returning £350; rent very low, lease would be given; inspection invited. Full particulars, apply, "Ferri," Raimes & Co., York.

**MANCHESTER.**—For immediate Disposal, a first-class old-established Chemist's Business in fashionable part of the city; good Dispensing connection; lease. Apply, Trevor, Pilling & Co., Chartered Accountants, 2 Clarence Buildings, Booth Street, Manchester.



# SITUATIONS OPEN—Cont.

**WANTED**, sharp youth, as Turnover, in good-class Dispensing business. Allen & Lloyd, Aldershot.

**WANTED**, Dispenser and Bookkeeper (indoor) at once. State age, salary, experience, to Dr. Webb Fowler, Coventry.

**WANTED**, Invoice Clerk and Bookkeeper; accustomed to the Wholesale Drug Trade. Apply to A. B., c/o Goolinge & Son, 15 Aldersgate Street, E.C.

**IMMEDIATE**; active Senior for good Cash Family trade; good terms to suitable man. G., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ASSISTANT** wanted, capable of taking charge of branch; state qualification, salary, and full particulars. W. Proctor, 7 New Bridge Street, Newcastle-on-Tyne.

**JUNIOR** Assistant required for Light Retail and Dispensing business; time can be allowed for study if required. Apply (personally preferred), Shepley, 169 Brockley Road, S.E.

**ASSISTANT** wanted (qualified), in high-class modern business; must be good Counter hand; send usual particulars; indoors. W. Aston, Pharmaceutical Chemist, 21 Montague Street, Worthing.

**APRIL 9**.—St. Leonard's.—An energetic, gentlemanly Assistant, about 23 years, qualified and accustomed to good-class business, to manage branch. Apply, with carte and usual particulars, J., 1 Harold Place, Hastings.

**WANTED**, immediately, by a firm of Wholesale and Export Druggists, a qualified Chemist, steady and reliable, and accustomed to fitting up Medicine-chests. Apply, 262/72, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**IMMEDIATELY**.—Wanted, an Assistant, capable of taking charge in absence of principal; must be energetic and quick. Apply, with photo (to be returned), stating experience, height, age, salary, &c., "South London," c/o Mr. Clayton, 16 Coleman Street, E.C.

**AT** once, 2 Juniors—1 indoors, 1 out—for first-class Cash business, W. and N.W.; must be smart at Counter and Dispensing. Apply, stating full particulars of experience, salary expected, &c., to X., Messrs. Hodgkinson & Co, 101 Whitecross Street, E.C.

**JUNIOR** Assistant, about 20 or 21 (indoors), accustomed to a good Dispensing business, and of steady habits. Personal application preferred, or if by letter enclose photo (to be returned), stating age, height, and salary required, to H. Taylor, 39 Ledbury Road, Bayswater, W.

**JUNIOR** Assistant; about 22; must be a quick and accurate Dispenser and used to making pharmaceutical preparations; indoors. Apply (personally preferred), stating age, height, salary required, with photo, to R. C. Harrison, Pharmaceutical Chemist, 3 Eltham Road, Blackheath, S.E.

**DISPENSER** required at once; must be qualified and thoroughly reliable; also a gentlemanly Assistant for Retail Department; personal application preferred; easy hours, 3 to 7; Thursdays 4; closed Sundays and Bank Holidays. Apply to the "Chemist," Harrod's Stores (Limited), Brompton Road, S.W.

**WANTED**, a married Assistant, aged about 30, with not more than 1 child; must be good Dispenser and Prescriber and have good references; unfurnished bedroom, sitting-room, and kitchen, with gas for cooking and lighting, and 2 guineas a week salary. Apply, by letter, to "Delta," c/o Hodgkinson, 101 Whitecross Street, E.C.

**MDRAS**.—Qualified Assistant (Englishman), not exceeding 21 years of age, good address and experience, for high-class pharmacy; 3 years' engagement; second-class passage paid; salary 100r. per month first year, 125 second year, and 150 third year; free board and lodging. Apply, with photo and full particulars, to "Octacumund," c/o Street & Co., Cornhill, London, E.C.

**RANGOON**.—Chemist's Assistant required, holding Minor qualification; age not to exceed 24 years; must have had good General experience; salary 175r. per month first year, 200r. per month second year, 230r. third year. 275r. fourth year; outdoors; four years' agreement; second-class passage paid out. Address, with full particulars, W. B., c/o Street & Co., Cornhill, London, E.C.

**INDIA**.—Qualified Assistant required for Chemist's and General business; must be young, single, temperate (abstainer preferred), and energetic; 4 years' agreement; second-class passage paid out, and free board and lodging provided; salary per calendar month—first year, 125r.; second year, 150r.; third year, 175r.; fourth year, 200r. Apply, stating full particulars, to "Quetta," c/o Messrs. Street & Co., Cornhill, London, E.C.

# SITUATIONS WANTED.

1s. for 12 words; 6d. for every 6 words beyond.

**JUNIOR**; 20; tall; 6 years' good experience. G. D., 54 St. Thomas Street, Portsmouth.

**QUALIFIED**; aged 25; town preferred; good experience. G., 2 Elm Road, Mortlake.

**ASSISTANT**; time for study and classes; experienced. "Assistant," 169 Brockley Road, S.E.

**JUNIOR**, in Dispensing Business; 22; Minor; 7 years. Beattie, Lower Edmonton, London.

**JUNIOR**; 20; 5 years' experience; large town preferred. H., Malvern House, Clevedon.

**JUNIOR**; time for classes; London experience; reference. Pilcher, Marsh Street, Ashford, K. ut.

**WHOLESALE**; Wet or Dry; town or country; 10 years' reference. M., 24 Reedham Street, S.E.

**PART-TIME** evenings off; Surgery or Junior; near college. R. B., 11 Bellevue Road, Sunderland.

**WANTED**, engagement, one or two evenings weekly. "Dispenser," 28 Newington Causeway, S.E.

**SUNDRIES**; Wholesale and Export; smart Warehouseman; 22. J. A. F., 101 Cloudeley Road, N.

**LOCUM-TENENS**; aged 28; disengaged; Extractor. 2 Horton Street, Lewisham, London, S.E.

**WHOLESALE** or Export, Wet or Dry; experienced. Forbes, The Village, Tarland, Aberdeenshire.

**ASSISTANT**; qualified; 22; good experience and references. Taylor, 74 Lumley Road, Skegness.

**ASSISTANT**; unqualified; 6 years' experience; outdoors; 5 ft. 6 in. "Methylene," 92 Wood Street, Mansfield.

**JUNIOR**; 21½ years; indoors; 4 years' experience; excellent references. J. T. Howden, White House, Mount, York.

**ASSISTANT**; 28; London and country experience, modern trade; disengaged. H., 4 Swan Hill, Shrewsbury.

**JUNIOR** or Assistant; 21½; 5 years' first-class experience London and country. F. P. O., 42 Rothsay Road, Luton.

**WHOLESALE**.—Forwarding Clerk seeks engagement; highest references. "Salol," 13a Dufferin Street, E.C.

**JUNIOR** aged 19, wants situation in a country business. Forbes, 10 Musters Road, West Bridgeford, Nottingham.

**COUNTRY** Manager or Assistant; qualified; purchase or otherwise. "Drugs," 221 Chester Road, Hulme, Manchester.

**MANAGER**; qualified; married; good references; 20 years' experience. Aves, 28 Little South Street, Wisbech.

**MANAGER** or outdoor Assistant; qualified; aged 30; disengaged March 18. "Chemist," 167 Mare Street, Hackney.

**MANAGER**; qualified; registered Dentist; married; first-class testimonials; disengaged. Nathan Smith, Highbury.

**JUNIOR** or Improver; 19; 5 ft. 9 in.; 4 years' Dispensing experience; good references; small salary. Bathurst, Tewkesbury.

**QUALIFIED** Manager or Locum; 50; first-class City and West-end experience. "Bellad," 50 Malpas Road, New Cross, S.E.

**MANAGER**, Dispenser, Prescriber; qualified; 36. "Virol," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**JUNIOR** seeks re-engagement; 5 years' experience; country preferred; 21; unqualified. J. B., 50 Park Street, Cambridge.

**DISENGAGED**; reasonable terms; Locum or qualified Manager; middle-aged; trustworthy. 36 Wrexhamfechan, Wrexham.

**PART-TIME**, every evening, or one or two evenings a week, or Friday and Saturday only. "Chemist," 82 Crowdale Road.

**LONDON**.—Wanted, employment for a few hours a day; good Dispenser; 4½ years' experience. E. S., 64 High Street, Blackpool.

**PACKER** (female) for Proprietaries and Perfumes; good reference; aged 20; Retail preferred. W. L., 17 Erie Street, Burdett Road.

**JUNIOR** or Locum; 22; 5 ft. 6 in.; 8 years' experience; disengaged. Particulars to Wild, 41 Woodfield Road, South Shore, Blackpool.

**ASSISTANT**, half or full time; Manchester or London; Extractor. "Pax," Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

**ASSISTANT** (outdoors) or Branch Manager; aged 27; qualified; disengaged March 20th. M. Curtis, 151 Broad Street, Birmingham.

**WHOLESALE**.—Wet Counter; willing to make himself useful; aged 37; good references. D., 5 Weston Street, King's Cross Road.

**FRANCE**.—Qualified English Assistant desires engagement in France; good references. C., Pharmacie Anglaise, Beaulieu, Alpes Maritimes, France.

**FOR** a few months, in or near London; varied experience; aged 30; Minor; disengaged; in or out doors. "Locum," 4 The Broadway, East Ham.

**REPRESENTATIVE** good Sundries or Drug house; experienced; good connection, London and suburbs. "Statin," 25 Bradiston Road, Paddington, W.

**LOCUM** or Manager; qualified; long experience and fully competent; good Prescriber; disengaged. 183/2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LABORATORY**.—Experienced maker of Chemist's specialities and B.P. preparations; good references. 183/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.



## PARTNERSHIPS.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

**THE** Syndicate-owners of a large Chemist's Business in the West of London desire to amalgamate with several others to float as a West London Drug Store. Write, in confidence, to L. D. S., Willing's Advertisement Offices, 162 Piccadilly, W.

## SITUATIONS OPEN.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

**ASSISTANT** wanted. State age, height, salary required, and references, to Gilbert & Hall, Chemists, Bournemouth.

**JUNIOR** wanted at once, for Light Retail: aged about 22; indoors. Apply with full particulars, to J. Parrott, Esher, Surrey.

**WANTED**, a good Junior for Dover. Apply, stating age and salary required, and enclose carte, to Lewis, Ben Wyvis, West Cliff, Bournemouth.

**JUNIOR**: good Dispenser, and quick Counterman. Apply, with full particulars as to age, height, salary, and references, to T. R. Edwards, Chemist, Devizes.

**ASSISTANT**: about 21. State age, experience, and full particulars in first letter, enclosing photo, to John H. Smith, Pharmaceutical Chemist, Newark.

**WANTED**, immediately, Branch Manager; qualified; age about 25 to 30; also Junior or Improver. Apply, "Glusindm," c/o Evans, Sons & Co., Hanover Street, Liverpool.

**WANTED**, at once, an Assistant (experienced Dispenser). Apply, stating age, height, salary, &c., photo (to be returned), to J. G. Sangster, Pharmaceutical Chemist, Southsea.

**WANTED**, at once, a Junior Assistant, for General Country business; one who understands Postal and Telegraph work preferred. Apply, with full particulars, to Blankley, Arnold, Notts.

**WANTED**, for March 28th, a good Assistant, aged 20 to 25. Apply personally, or, if by letter, state age, height, reference, &c., and send photo, Barnett Newth, 97 Uxbridge Road, W.

**OUTDOOR** Assistant, as Counterman, wanted for a brisk Ready-money business. Apply (with photo), stating age, height, and experience, to E. J. Kitson, City Drug Stores, Worcester.

**MESSRS. HITCHMAN & SON**, Chemists, Kettering, have a vacancy for an Improver, about 18 or 19, in a good-class Country business. Apply, enclosing photo, and state salary required.

**WANTED**, immediately, an Assistant who has been accustomed to Select Dispensing business; age about 22. Apply, with full particulars, enclosing photo, to Whiston & Co., Chemists, Bath.

**INDIA**.—Wanted, a qualified Assistant, aged about 23; good business ability indispensable; liberal salary; passage paid out. Address, by letter, J. R. M., c/o Messrs. Meggeson & Co., 14 Miles Lane, E.C.

**WANTED**, qualified gentlemanly Assistant, about 23; must be smart and good Counterman and Stockkeeper. Apply, stating age, height, and salary required, Webber, Chemist, 202 High Road, Chiswick.

**WANTED**, a Junior Assistant, about 22 years of age, who has had some experience in Prescribing; indoors; Mixed Retail. Address, with usual particulars, J. H. Dickinson, Lord Street, Huddersfield.

**A SMART**, active, energetic Assistant, about 24 years of age; qualified; outdoors; must have been accustomed to quick Store business. S. V. M., c/o Messrs. Meggeson, 14 and 15 Miles Lane, Upper Thames Street, E.C.

**WANTED**, two Welsh Assistants: one a reliable Junior, about 21, with good character, and a qualified man to take over a good-paying business. Apply, with full particulars T. J. Hughes, Chemist, Bethesda, Bangor.

**JUNIOR**, about 19 or 20, accustomed to Country trade. Please give full particulars as to experience, height, salary required (indoors), when disengaged, reference, and photo, if convenient, which will be returned, to Smith, Chemist, Coleford, Glos.

**J. C. POTTAGE**, Homoeopathic Chemist, 117 Princes Street, Edinburgh, is in want of an active Junior Assistant; outdoors; a knowledge of Homoeopathy not essential. State age, height, references, salary, and carte (to be returned).

**IMPROVER** or Turnover wanted (indoors) by the 20th March, in a good-class Retail and Dispensing business where two are kept. State full particulars with references, and photo, or interview if local, to Fincher Brookes, Charing Cross, Birkenhead.

**WANTED**, qualified Assistant for Country business; Light Retail and Dispensing; a good all-round man with satisfactory references preferred; 2 kept. Apply, with full particulars and salary required, to R. Fearer Clarke, 21 High Street, Gravesend.

**TRAVELLER** wanted by provincial Wholesale Drug house to represent them in North of England and Scotland; man with good connection on that ground liberally treated with. Apply, "Drugs," c/o May & Baker, Garden Wharf, Battersea, London.

**JUNIOR** Assistant wanted for good-class Mixed business, immediately. Apply, with usual particulars as to age, salary required, &c., to Percy Carr, Chemist, 85 and 87 Ecclesall Road, Sheffield. Applications not replied to in three days to be considered declined.

**WANTED**, at once, qualified Manager, to take entire charge of Chemist's business in suburbs of London; must be well recommended and trustworthy; indoors; unmarried. Write full particulars, experience, salary, &c., to J. O. H., 46 Bedford Row, W.C.

**ASSISTANT** wanted, qualified; about 25 to 35; gentlemanly and pushing Counterman; one accustomed to the sale of Photographic requisites preferred. Apply, stating age, height, references, and salary (outdoors), to C. Hodgson, 57 Biddulph Street, Highfields, Leicester.

**WANTED**, end of March, Assistant, well up to a good Country business in all its branches, quick, active, and good Dispenser, for 3 or 4 months; outdoors; no Sunday duty. State age, salary, references, and experience (qualified preferred) to Fielder & Co., Chemists, Newbury.

**M. BEETHAM & SON**, Cheltenham, require a thoroughly competent Assistant, about 24 years of age; must have been accustomed to the best-class Retail and Dispensing trade. Applicants will please state qualification, references, salary required, and enclose carte.

**WANTED**, for March 21st, a reliable Assistant, aged about 23, for Cash Store business; must be a quick and accurate Dispenser, and a good Counterman; with West-end experience preferred; a personal interview preferred. Apply to 130 High Street, Notting Hill Gate, W.

**SMART** active Assistant wanted, about 25 years of age; outdoors; accustomed to Mixed and quick Cash Store business; must be obliging and attentive to duties. State salary, references, &c., and enclose photo, to "Assistant," c/o Raimes & Co., Wholesale Druggists, York.

**WANTED**, at once, a Junior or Improver, for a good business where 3 or 4 are kept; one accustomed to a country Wholesale preferred. Apply, with references, salary required, and all particulars, with photo (if one in possession), to be returned at once. Apply, Corfe & Son, Chemists, Maidstone.

**WANTED**, by the 13th March, an Assistant, qualified, for a Light Dispensing and Prescribing business; not under 25, and of gentlemanly appearance; one used to Extracting Teeth preferred. Apply, stating age, height, salary required, to the Exors. C. J. Boorman, Chemists, Malvern Link.

**LIVERPOOL**.—Wanted, immediately, a smart Junior, about 23, well up in Counter trade; comfortable home, with board and lodgings, and small salary offered for part-time—i.e., each afternoon allowed for study; satisfactory references required. Address, W. A. Grace, 41 Prescott Street, Liverpool.

**APRIL 4**.—Assistant-Manager; aged about 30 to 32; tall; qualified; seeking permanency; married; salary £120 (outdoors); must be well recommended, a good Salesman, and agreeable to customers. Enclose photo, and state age, height, experience, &c., to Wand, Cash Chemist, Haymarket, Leicester.

**COMPETENT** Assistant, not under 23 years of age; none without good experience in Agricultural and Mixed business need apply; progressive salary and permanency to a suitable man. Give full particulars, state salary required (outdoors), and enclose photo to Arthur Carlton, Hollymead, Peterborough.

**WHOLESALE**.—Wanted, a fully qualified man for a Wholesale Sundries and Drug establishment; a Major man, with Analytical and Manufacturing experience preferred. Send full particulars as to age, experience, and wages required, to 260/35, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ASSISTANT** (immediately), reliable (outdoors), aged about 23, single, for a good Country Retail, Dispensing, and Agricultural business; neat and active Counterman; moderate hours, no Sunday duty, close Wednesdays 4 P.M.; apprentice kept. Apply, stating age, height, references, salary, carte (returned), to W. Boor, Wisbech.

**WANTED**, qualified Manager for North Wales watering-place; rooms provided on premises; knowledge of Welsh essential; married or single; must be well recommended and trustworthy; a good Prescriber, Extractor, and one desiring a permanency would be liberally dealt with. Apply, with full particulars, Lloyd, 267 King's Road, Chelsea.

**WANTED**, a competent Assistant, not under 25, who has been accustomed to first-class Retail and Dispensing; indoors; must have good references; qualified; preferred; permanency to a suitable man. Kindly state full particulars of experience, age, height, when disengaged, salary required, and enclose photo to D. T. Evans, Chemist, The Parade, Margate.

**TO Dispensers**.—Wanted, an Assistant Dispenser at the Manchester Workhouse Infirmary at Crumpsall; salary £75 a year; applications, stating previous experience, and enclosing copies of testimonials, must be endorsed "Assistant Dispenser," and sent to the undersigned, not later than Tuesday, the 12th proximo; candidates must be fully qualified Dispensers. By order, &c., Geo. Macdonald, Clerk to the Guardians. Poor Law Offices, New Bridge Street, Manchester, 22nd February, 1895.



**BUSINESSES FOR DISPOSAL—Cont.**

**£50** will purchase Shop, Stock and Fittings, and Goodwill of small Chemist's Business; long lease; part sublet: business much neglected; under management; main thoroughfare, London, W. Apply, 180/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**FOR** Sale, in one of the largest seaport towns in South Wales, main thoroughfare, a good Prescribing and Retail Business: splendidly fitted; well stocked; proprietor giving up on account of ill-health. "Zeta," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**HAMPSHIRE** Seaport.—A genuine small Retail and Prescribing Business; well situated in main road with rapidly growing district; strict investigation allowed to bona-fide applicants: price about £240. Apply, "Chemist," c/o Mrs. Ford, 65 Ernest Road, Buckland, Portsmouth.

**GOOD-CLASS**, profitable, ready-money Business; very few Patents; suit qualified or unqualified man: healthy neighbourhood, S.E.; returns, under management £13 weekly; will be sold a bargain; part cash can remain. "Zingih," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**SOUTH COAST**—A well-established Chemist's for disposal, with Dental connection; same hands 14 years; good living; situate in main thoroughfare; low rent; good modern shop, with excellent house; incoming £375. Further particulars of Leaver & Leaver, Agents, 3 North Street, Quadrant, Brighton.

**WEST LONDON** (6 miles out, rapidly increasing suburb).—Light Retail, Dispensing, and Prescribing Business; returns £30 weekly; excellent profits; 9-roomed house, with garden; price £900; every investigation, and month's trial if wished. 182/24, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street E.C.

**£185.**—Retail and Prescribing Business; returns £300; rent £60, let off £20; splendidly-fitted shop; good corner position; price asked is considerably less than value of stock and fixtures; satisfactory reasons for leaving; no agents. 180/8, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TO** be Sold, immediately, as a going concern, the old-established Business of a Chemist and Druggist, carried on by the late Mr. W. S. Edwards, at 302 Tabard Street, Great Dover Street, S.E.; corner shop; rent £42; to effect a quick sale, price £80. Apply, personally, to the Executors, at the above address, after 3 p.m.

**FOR SALE** at Valuation of Stock and Fixtures, a Dispensing and Light Retail Business in a good-class neighbourhood; established 1845; convenient house and side door; rent low, also part let off; returns £400, which could be increased by a pushing man; only wants seeing. Apply, W., 94 Harrow Road, London.

**£10,000** Returns.—Wholesale, in Northern city; very old-established well-connected concern; principal retiring after 30 years' successful occupancy; price about £2,500; admirably adapted for two energetic men. Apply, "Wholesale," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LONDON, W.**—Old-established Business, almost entirely Dispensing and Prescribing; proof returns for several years £7 a week, at good profits; capable of considerable increase in energetic hands; rent £50, lease; convenient house in good position, side entrance. Address, "Beta," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**SOUTH COAST.**—Retail, Dispensing, and Prescribing Business; old-established middle-class trade, formerly doing £800 yearly, now allowed to run down; splendid commanding, well-fitted shop, with good house; main road; about £450 required; rent £45. Principals or solicitors apply, "Manly," 62 Lansdowne Street, Hove, Brighton.

**£385** Cash.—Genuine Drug Business for disposal in a charming and populous suburb of London; main thoroughfare; double-fronted shop, amply stocked; convenient premises, with private entrances; garden; moderate rent; cause of selling, age (over 70 years). Address, S. W., Miss Atkinson, 40A King William Street, London Bridge.

**£100.** or near offer, will purchase a small genuine business, returns between £5 and £6 weekly, solely prescribing, small retail and extract'ons, patents *nil*, profits above average; established years, now under unqualified management; good opening for surgeon's retail; owner leaving trade. "Chemist," 21 Stillman Street, Clapton, N.E.

**FIRST-CLASS** Light Retail and Dispensing Business; quite unopposed and situate only 10 miles from London; no possibility of stores; full prices obtained; handsome shop, good house attached; net profit £42; price, inclusive, £1,150; a unique investment in every way. Codeira," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street E.C.

**£80.**—Retail and Prescribing Business, in small Lancashire town, where there are no Stores; full prices, except Patents; established 17 years; returns low, much neglected; capital opportunity for good Prescriber and Extractor; Extractor sorely needed; rent £20; easily fitted. 181/14, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**DISPENSING** and Prescribing, with Light Retail Business; opened 18 months; fittings new and well arranged; good residential neighbourhood, increasing; no immediate opposition; satisfactory reason for disposal; investigation invited; residence good and distinct from shop; a rare opportunity for moderate capitalist; no agents. "Radix," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TO** Pharmaceutical Chemists and Druggists.—To be disposed of at J. H. North's Salerooms, No. 110 Grafton Street, on Tuesday, the 9th of April next, as a going concern, the well-known establishment, No. 1 Chancery Street, and Harcourt Road, second to none as regards position in the City of Dublin: first-class stock, long lease; low rent. For further particulars apply to Hubert C. West, Solicitor, 56 Middle Abbey Street, Dublin.

**£100,** worth £200.—Birmingham Retail and Prescribing; established 40 years; returning £7 weekly, though neglected; lately did £12, and can again; rent £40; good house; side entrance; no garden; well fitted in mahogany; amply stocked; proprietor must sell at once having other business in hand; bona-fide buyers may view; no further particulars written; this genuine bargain only wants seeing; splendid chance for beginner; certain living. "Bargain," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**BUSINESSES WANTED.**

3s. 6d. for 50 words; 6d. for every 10 words beyond.

**WANTED**, good sound Business with not less than £200 to £300 net profit; or partnership would be entertained; cash at command £1,100. "Buyer," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, on South Coast, a Light Retail and Dispensing Business, yielding not less than £120 net profit yearly; invest about £250; strict confidence; no agents. "Tea Tabloid," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED** high-class Retail and Dispensing Business; returning £700 to £1,000; must bear every investigation; good house and situation essential; references exchanged; no agents. Full particulars, in confidence, to "Tarax," 89 St. Domingo Vale, Everton, Liverpool.

**CASH** purchaser requires a good Retail and Dispensing Business, yielding net profit upwards of £400 per annum; Southern or S.E. counties, or seaside; pleasantly-situated London business entertained; correspondence invited; references exchanged. "Bonafide," c/o Messrs. Maw, Son & Thompson, 11 Aldersgate Street, London.

**ADVERTISER** has just sold his business in Midlands, and is desirous of acquiring a good sound Retail and Dispensing Business within 50 miles of London, or in the West of England; the net profit should be about £400 a year and there must be a fairly good house. Address, "Major," c/o Mr. J. Andrews, Dentist, Walthamstow, Essex.

**FOR SALE.**

**TO** be Sold, immediately, the complete Fittings of a Chemist's shop, together, or separate; the stock of Drugs and Patent Medicines; good chance for anyone commencing. Apply to Messrs. Judd & Manners, 76 Cannon Street, E.C.

**TO LET.**

**HOUSE** and Shop, suitable for Chemist; populous neighbourhood; no other Chemist's shop within 2 miles; two doctors in immediate vicinity. Monson, *Courier* Office, Tunbridge Wells.

**CAPITAL** Shops, plate-glass fronts, to be Let, in main thoroughfare; omnibuses and trams constantly passing; one arranged for a Tobacconist's, and other suitable for a Chemist and Druggist's Business; low rents, commencing from Lady Day; possession can be had at once. Apply, on premises, 26, 28, and 32 Camden Road; or to Salter, Rex & Co., 311 Kentish Town Road, N.W.

**APPRENTICESHIPS.**

**YOUTH** (16), passed Oxford Local Exam., seeks situation as Apprentice in good-class Retail business; indoors. Apply, W. Siddle, Crown Hotel, Penrith.

**APPRENTICES** (Two) wanted, in a large business doing a good-class Cash trade, with good Dispensing ditto; every chance of learning the trade; good house; no Sunday duty; sharp, well-educated youth will find this a valuable introduction to modern pharmacy. Address, "Rhei," 8 Praed Street, Paddington, W.

**MINISTER** wishes to Apprentice early in April son, well-educated, good address, amiable, to qualified Chemist, not very far from London; Mixed trade objected to; Christian home indispensable; moderate premium; satisfactory references given and required. Full particulars to "Pater," Wesley Manse, Watlington, Tetsworth, Oxon.

**DENTISTRY.**—Macdonalds (Limited), Wholesale Artificial Teeth Manufacturers, 29 Piccadilly, Manchester, have vacancies for one or two Articled Pupils and Apprentices: small fees; they will be taught Extracting, taking Impressions, Fitting, &c., also, if required, every part in Dental Mechanics, under the most skilled supervision, modern appliances, and in shortest time.

**VACANCY** for Dental Pupil; in or out doors; reference to several former pupils successfully in practice and as prizemen; considerable opportunity for experience in Dental Mechanics from large turn-out for the profession and private practice. Mr. Whitehouse, L.D.S., E.D., Consulting Dental Surgeon, Royal Hospital for Women and Children, 139 Victoria Street, S.W., near Victoria Station.



## SITUATIONS WANTED—Cont.

**BRANCH** Manager; 35; disengaged. Keating, 12 Wansey Street, Walworth Road, S.E.

**LOCUM-TENENS**; 38; qualified; abstainer; disengaged. "Minor," 40 Palace Street, S.W.

**DISPENSER** to Surgeon; highest references. "Dispenser," 47 Ever-shot Road, Tollington Park, N.

**MANAGER**, Store; reliable; married; abstainer; Photographic; permanency. Burnett, 3 West Street, Reading.

**MANAGER**, Locum, or Assistant; married; abstainer; Extractor; Stores not objected to. B., 17 Stafford Road, Brixton.

**ABSTAINER**; 23½; first-class Provincial, City, and West-end experience; London. Hooper, 103 Queen's Road, Bayswater.

**RE-ENGAGEMENT** as Branch Manager or otherwise; 24; unqualified; excellent references. R., c/o Brimson, Chislehurst.

**UNQUALIFIED**; by April; good references; time for study. 182/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MANAGER** or Assistant, view to early succession; experienced. 182/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MEDICAL** Man's daughter desires engagement as Dispenser; 5 years' experience; good references. P., 40 Gubyon Avenue, Herne Hill, S.E.

**PART-TIME** or otherwise; 26; unqualified; 8 years' varied experience. 182/29, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**EVENING** work; rapid Dispenser; neat Bookkeeper; qualified. "Bossuetus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**CHEMIST** Assistant, or Dispenser to Surgeon; in or near Manchester; outdoors; tall; Extractor; experienced. Lloyd, 33 Conybere Street, Birmingham.

**JUNIOR**; in Manchester or Liverpool; aged 20; height 6 ft.; good Dispensing experience; highest references. W. R. Black, 7 Carlitou Terrace, York.

**ENGAGEMENT** as Dispenser, Manager, or Assistant by qualified man; outdoors; best experience and references. W. S. S., 118 Blackfriars Road.

**A YOUNG** man, with thorough knowledge of the Wholesale in all branches; 8 years'. 181/27, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**IMPROVER**; 19½; 3½ years' experience in good-class business; Birmingham preferred. R., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ASSISTANT** or Part-time; tall; qualified Dispenser; all-round experience; quick Counterman; London preferred. "Salol," 2) Mayfield Grove, Harrogate.

**MANAGER**, Branch; qualified; married; 28; abstainer; permanency desired. "Prescriber," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**JUNIOR**; 21; abstainer; tall; 3 years' experience, good-class Dispensing and Retail; excellent references; disengaged. Robinson, Lynwood, Boscombe, Bournemouth.

**MANAGER**, Senior, Locum-tenens; experienced in first-class business; Photographic and Optical; married; excellent reference. Lemmon, 5 Grand Parade, St. Leonard's.

**JUNIOR**, outdoors, 5½ years' experience, seeks engagement in a brisk business; London or large town. Address, "Aqua," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ENGLISH** qualified Chemist, speaking French, Italian, and German, desires situation in England or Continent. "Analyst," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TO** Country Druggists with Mixed trade; situation wanted (indoors if required); could travel occasionally; small salary. "Work," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TRAVELLER** seeks re-engagement; ground, North of England; total abstainer; good references and security. Address, 173/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**QUALIFIED** Chemist, thoroughly experienced in all branches of the Store trade; first-class testimonials; London or suburbs. Address, 178/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**FIRST CLASS** Counterman and Dispenser; aged 28; thoroughly experienced in modern Cash London store trade; unexceptionable references; open for engagement middle of April. 180/1, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**A<sup>S</sup> Dispenser**.—Young lady seeks appointment in or near London; Apothecaries' Hall certificate; Hospital, Dispensary, or Wholesale Chemist preferred. Address, Miss Hollington, Burgess Farm, East Ham, Essex.

**DISENGAGED**; Assistant; 11 years' good experience, 5 years quick Counter and Dispensing; Extractor; reliable references; aged 26; unqualified; Birmingham preferred. O. J., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TRAVELLER**.—Gentleman wishes to represent first-class house: Drug or allied trade; good appearance and address; young, energetic, and businesslike; undeniable references; Home Counties or West of England preferred. "Bath," 58 Fentiman Road, Clapham, S.W.

**TRAVELLER**, with sound first class connection amongst Chemists and Stores North of England—including Manchester, Liverpool, Newcastle, Hull, Sheffield, Leeds, &c.—is open to represent a good house, on salary and expenses or expenses and commission; Drugs, Sundries, or Specialities. Apply, T., 32 Emery Street, Cambridge.

**TO FIRMS REQUIRING A LONDON AGENT**.—Advertiser, well connected and energetic, having well-situated offices and some spare time, is open to act as London agent and representative for a provincial or colonial firm of good standing; undeniable references &c., given. Address, "London," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## MISCELLANEOUS.

*Special charges are made for Advertisements under this heading, which can be obtained on application.*

**CHAS. MARTIN**, the Chemist's Ticket Writer, Ramsgate, writes Proprietary Showcards, Descriptive Window Tickets, and Price Tickets; any Colour, any Size, any Style; thoroughly up-to-date and cheap; patronised by leading Chemists in town and country.

**ADVERTISERS**, with central London office and spacious stores, want sole Wholesale Agency from manufacturers of Chemists' Lines, Specialities, and Sundries; a medium for introduction of Proprietaries or anything saleable. "Company," 47 Blackfriars Road, S.E.

**BOOK-DEBTS** purchased outright for immediate cash, all kinds; best prices given for Country Debts; tradesmen continue to save time and trouble by selling us their troublesome debts; banker's reference. Write the Secretary, General Mercantile Finance Company, 19 & 20 Railway Approach, London Bridge, S.E.

**CHEMISTS' Shop Fittings**.—Great Bargains.—Solid mahogany Counter, 12 ft. long, fitted with drawers, £3 10s.; ditto, 6 ft. long, including dispensing screen, £5; Desk, with glass, 45s.; bent plate-glass Counter-cases, 5 ft. long, 80s.; 6 ft., 90s.; 7 ft., £5 5s.; and 8 ft., £6 5s.; mahogany-and-glass Wall-case, 10 ft. long, 9 ft. high, £12 10s.; also, 20 Dispensing-screens, 50 Counters, Wall-cases, Sponge-cases, &c. Philip Josephs, 54 Old Street, City Road, London, E.C. 5 per cent. allowed off all goods purchased before March 25.

**CHEMIST FITTINGS**.—Four excellent ranges of Chemist Drawers, with solid mahogany fronts, crystal cut knobs, and bevelled-edge labels; also Mahogany-fronted Shelving and Pannelled Lockers to suit same; 6 Spanish Mahogany Dispensing-screens; a large variety of mahogany and plate-glass fronted Counters; Bent-glass Counter-cases, Wall-cases, Sponge-cases, Desks, Window-enclosures, and everything appertaining to the trade. We have also the complete fittings for 3 shops, made of the best mahogany, highly french-polished, and all the latest designs; experienced Fitters sent to all parts of the country; write for references. Edwards & Co., Medical Fitters, 19 and 20 Old Haymarket, White-chapel, Liverpool.

**CHEMISTS' 12-ft. range** of 60 Mahogany-fronted Drawers, glass knobs, glass labels, own lettering, £7 5s.; if fitted mahogany-faced shelving above, between pilasters and mahogany cornice above, and lockers under drawers complete, £12 5s.; Mahogany bent Plate-glass Counter-case, display shelves, mirror back, 6 ft., 92s. 6d.; 5 ft., 77s. 6d.; Upright Case, plate-glass door, mirror back, and mahogany desk at back, 45s.; Dispensing-case, mahogany, 3 plate-glass doors, written tablet on top, 6 ft., 87s. 6d.; 5 ft., 73s. 6d.; nests of 13 under-counter Drawers, 2 label and till Drawers, 32s. 6d.; pink Ointment-jars, Shop-rounds. Estimates free. Mills, Shop Fitters, Showcase Manufacturers, 203 City Road, London, E.C.

**£10** Reward offered to Chemists, Authors, Journalists, and the intelligent public generally, for the most suitable Motto or Phrase, not exceeding 10 words, to print on the reverse side of the "Test Circle" found in each sixpenny and shilling tin of Cerebos Nutritive Table Salt, as sold by grocers, &c. Competitors may only send one postcard each, addressed "Secretary, Cerebos Works, Newcastle-on-Tyne," not later than April 9, mentioning name of this paper. The result will be published in the *Daily Graphic* on Monday and Tuesday, April 22 and 23. Judges' award final. Should any difficulty be found in obtaining a supply of Cerebos salt, please write at once to the above address or the London Offices, Cerebos Salt Co. (Limited), 134 Upper Thames Street, E.C. Cerebos is stocked by all the Wholesale Houses.

## PRELIMINARY AND MINOR

**STUDENTS!** Write to-day for a "Guide to Examination," gratis and post free, giving the best advice how to prepare. Knotty Points in Latin Grammar, 1s. 6d.; Cæsar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d.; Equations Simplified, 1s.; Notes on Dispensing, 1s., post free. Mr. J. Tully (Hills Prizeman), Chemist, Hastings.